THE WORLD WE LIVE IN: PART VIII THE CORAL REEF A 'LIFE' REPORTER IN MOSCOW

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FEBRUARY 8, 1954



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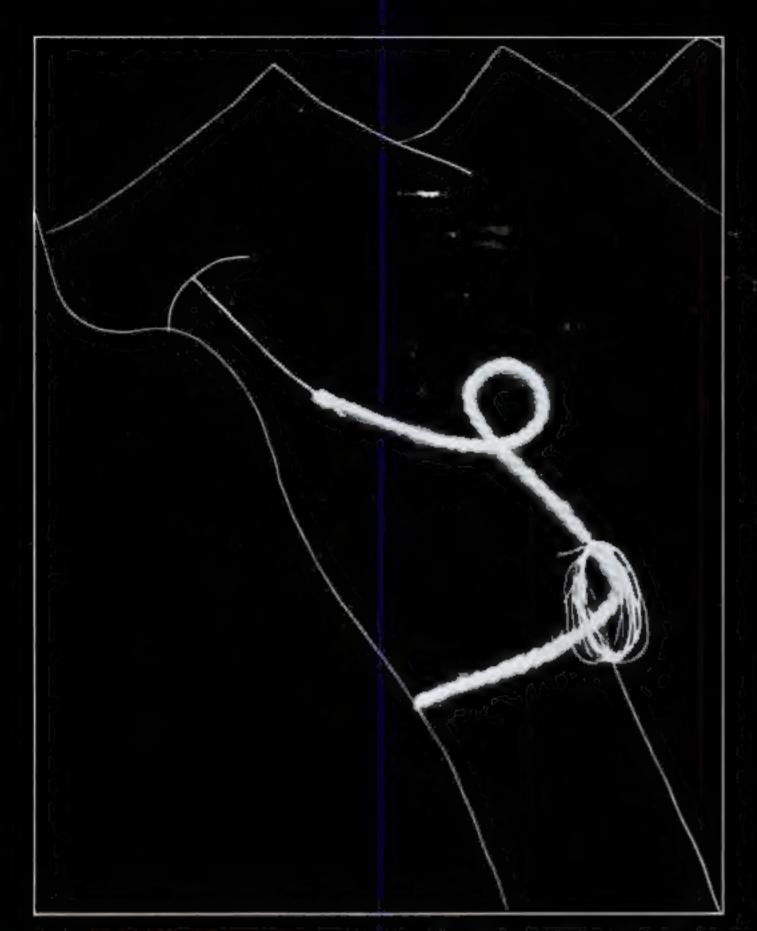
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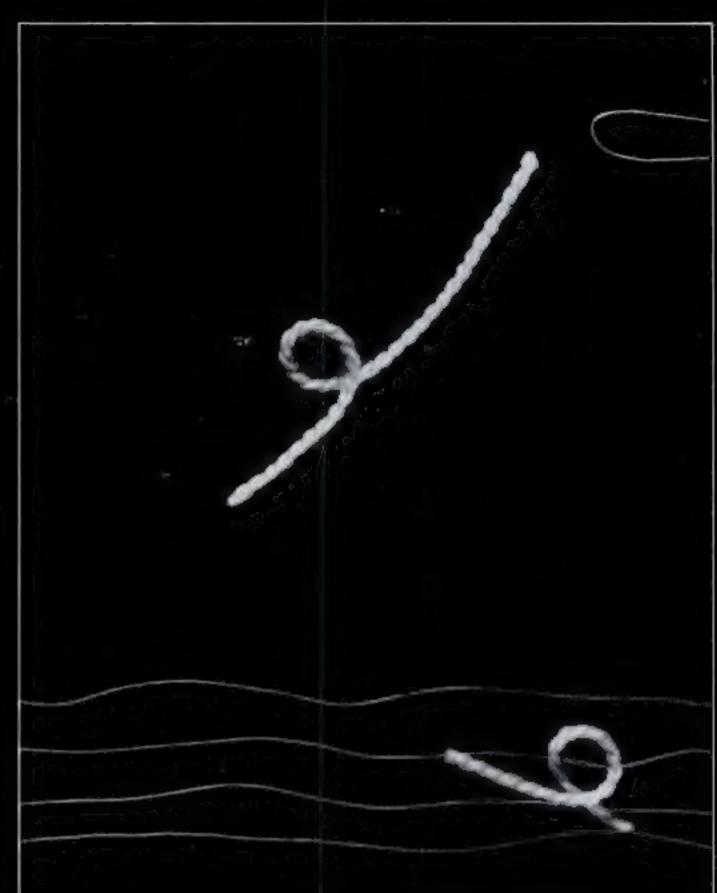
as little as 40¢; Chicago to Omaha for only 85¢; New York to Los Angeles for only \$2. (These are the 3-minute, station-to-station rates and do not include federal excise tax.)

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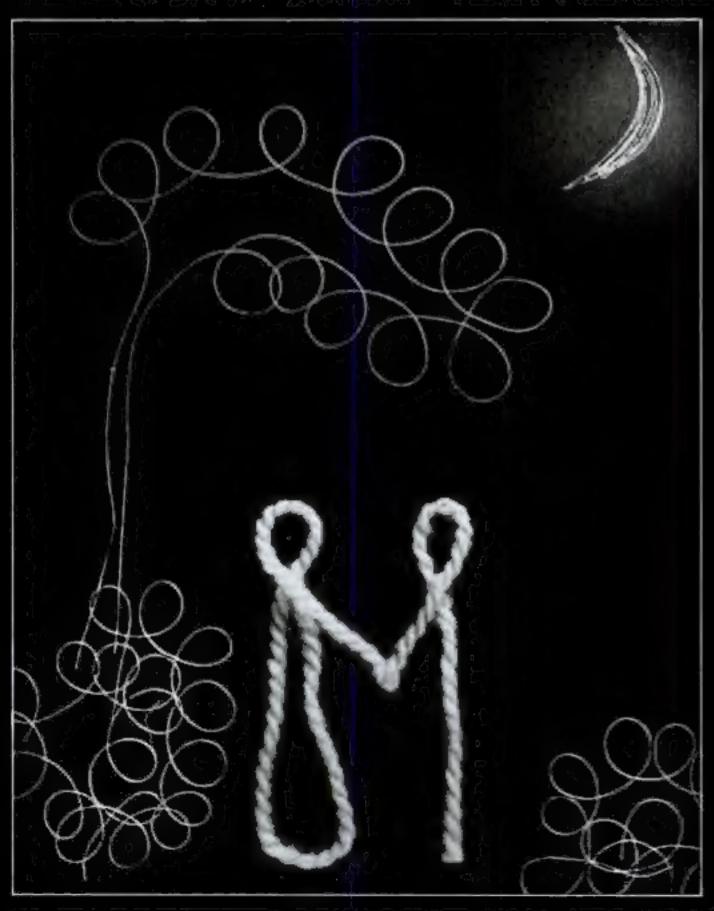
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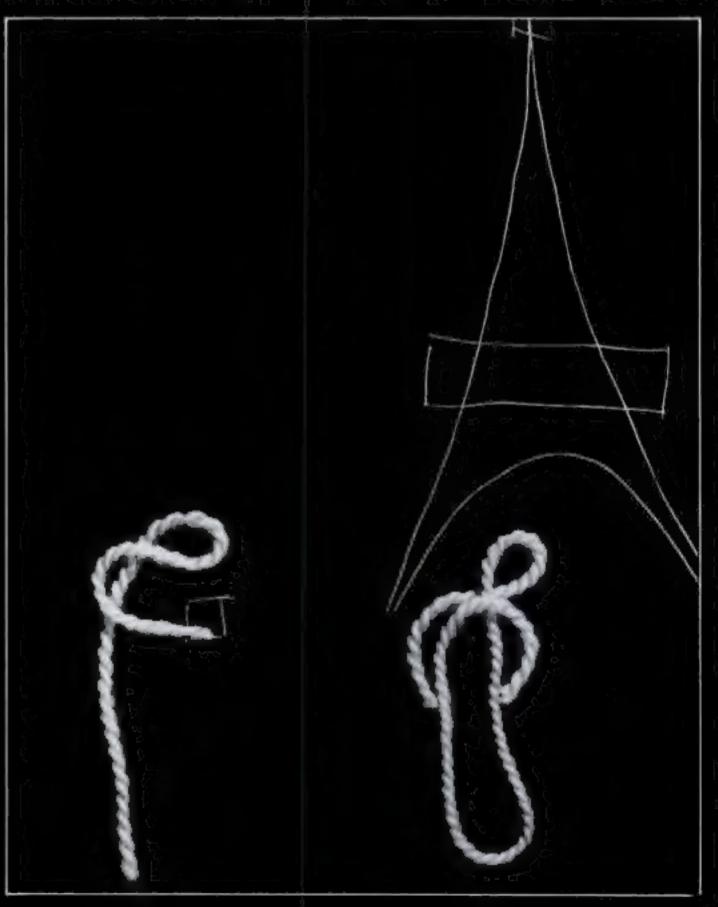




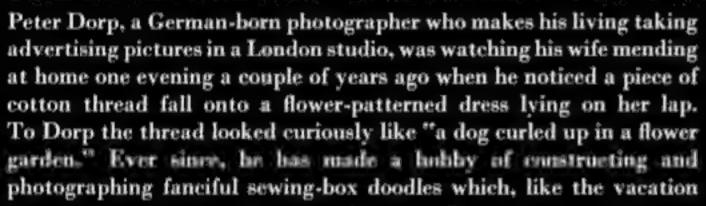
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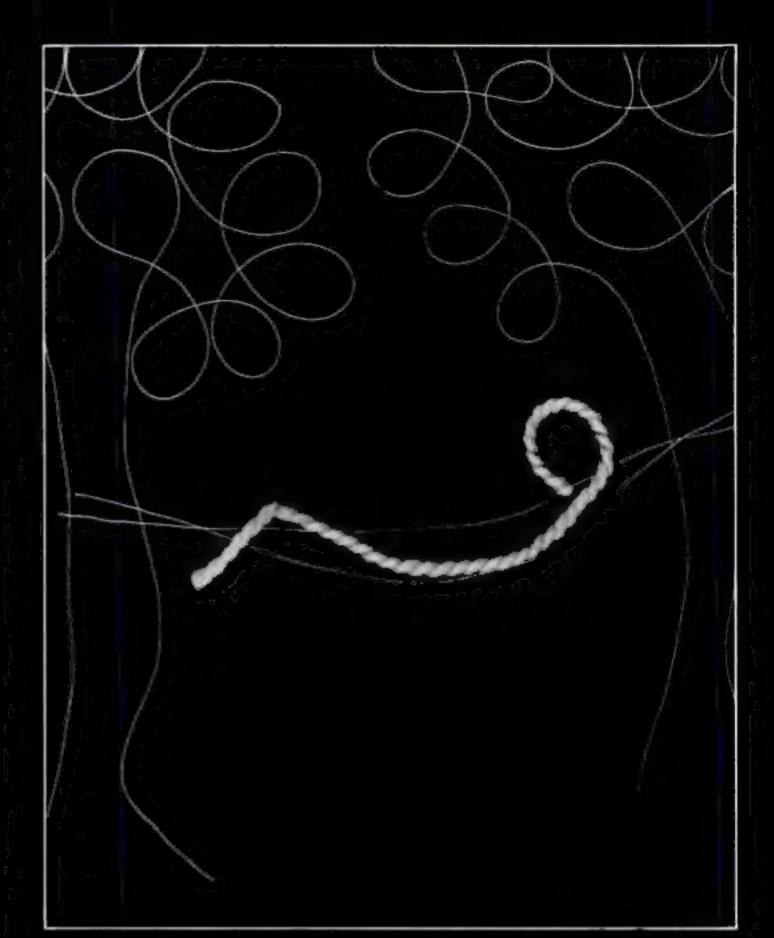
. . . Thread and knitting wool make artful doodles of people at play and in love



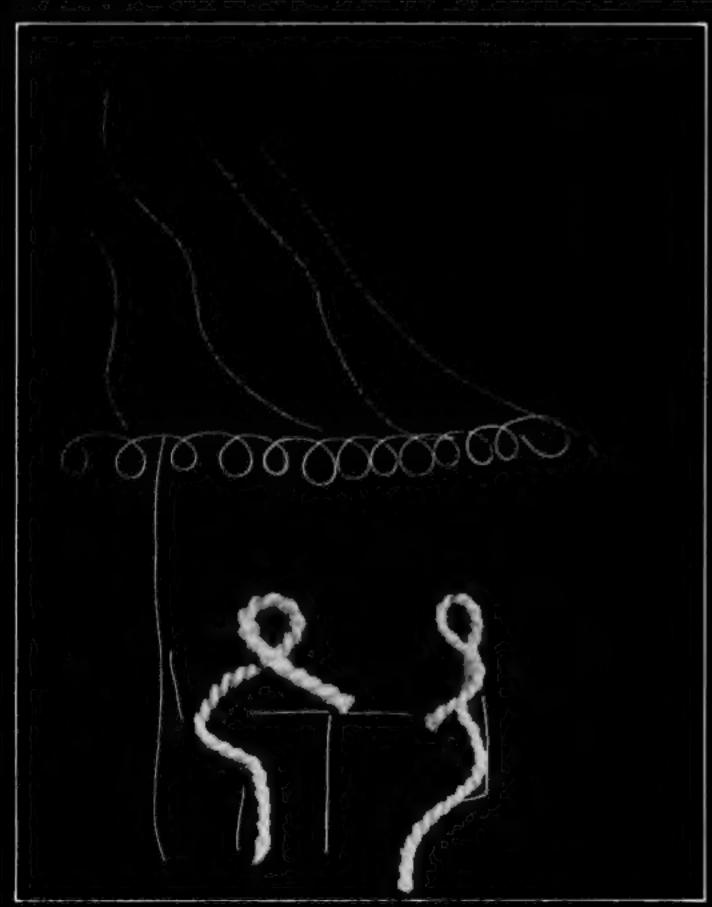


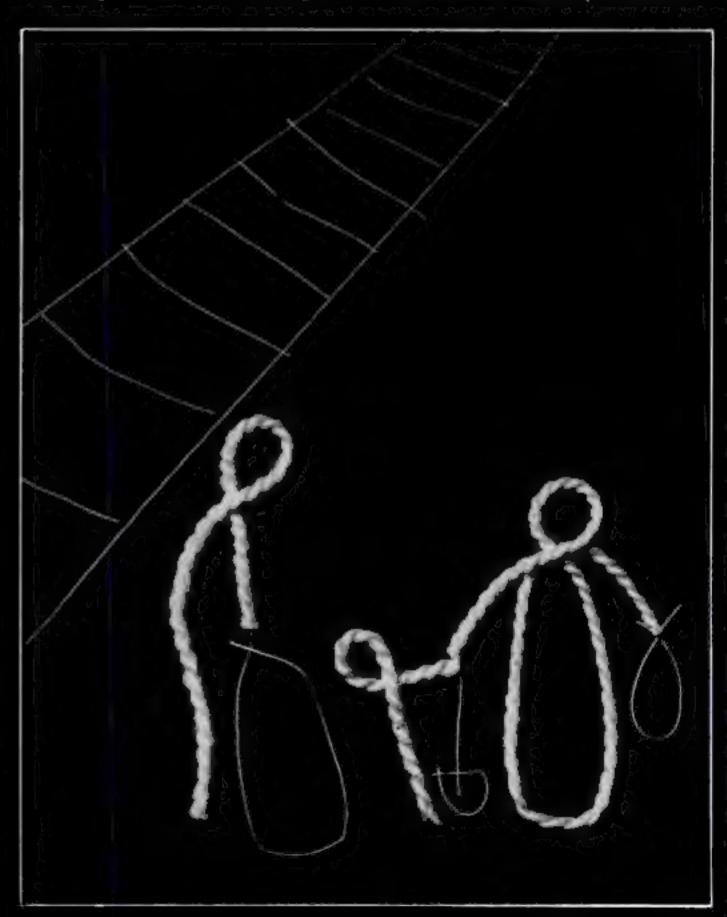






scenes above and the romance below, consist of nothing more than pieces of regular knitting wool and cotton thread artfully arranged as people and backgrounds. Dorp, who converts his living room into a makeshift studio and may take as long as seven hours painstakingly completing a single picture, turns out the doodles purely for his own amusement. But someday he plans to make them up into a book for the person who is already his best audience: his one-year-old son.





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Ma'am, you can pucker Up now-because every span shirt is triple-guaranteed! 1) By Manhattan; 2) By the famous Good Housekeeping Seal; 3) By the coveted Certified Washable Seal of the American Institute of Laundering. Every SPAN collar is especially constructed of fibers that are twisted like steel cables, yet smart and soft around the neck. In 7 collar styles, including the regular point fused collar (shown here) - \$3.95. Valentine Tie in special gift box, \$2.50.







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LETTERS TO THE EDITORS

EDITORIAL

Sira:

Congratulations on "From Erehwon to Somewhere" (Life, Jan. 18). I like Ike, and I like the U.S. There's too much of that "wailing" even up here—and I like your answer to it.

RUTH TAYLOR

Vancouver, B.C., Canada

Sirs:

My hat is off to those Republicans and businessmen "reactionaries" who with men of science and engineering are responsible for such prosperity as we have in spite of the New Deal, Fair Deal and middle-of-the-road policies, all of which are socialistic.

HERBEUT R. WELLS

Flint, Mich.

Sirs:

Who made this great country which you say Lincoln saved? Jefferson, Jackson and other great Democratic presidents built it during their administrations.

If Franklin D. Roosevelt had not pulled us out of the depression (of good Republicaniam), we today would not have this great country, which Eisenhower is striving to serve so conscientiously and effectively.

W. THOMAS YOUNG

Corinth, Miss,

Sirs:

"From Erehwon to Somewhere" is a egassem of eb gruh revo yreve naciremA htrach.

JAMES W. JONES

Lansing, Mich.

PRESIDENT TAKES CHARGE

Sira:

Mark Kauffman's color photographic study of President Eisenhower ("The President Takes Charge," LIFE, Jan. 18) was terrific.

L. RICHARD GUYLAY

Great Neck, N.Y.

Sira:

Your picture of Secretaries Dulles, Humphrey and Wilson is one of the remarkable photos of our time. Someone should cut that shot in stone,

ARNOLD JOHNSTON

Santa Ana, Calif.

BASKETBALL PLAYER

"Swede" Halbrook, 7 feet 3 inches tall, is not the tallest man ever to



(I year at the single copy price would cost you \$10.40)

(Canada: 1 year, \$7.25) Give to your newsdeater or to your tocal sub-N. Michigan Ave., Chicago 11, III. L-3406 play basketball ("World's Tallest Basketball Player," LtfE, Jan. 18). Back in 1946-47, Max Palmer, a boy with a length of 7 feet 8 inches according to the press, was playing high school baskethall in Mississippi and terrorizing the opposition to the extent of 50 points and more per game.

Early last year the same fellow popped up as a giant in LIFE's story on production of Class B movies.

JOHN M. BARLEY

Lakewood, Ohio



 Before he quit school in 1948 to work, basketball-giant Max Palmer (above) played forward for three years for Wainut High School in Quitman County, Miss., which won all its games. Now 26, and 8 feet 6 inches tall, he is a professional wrestler and recently played in the movie Kitler Ape. - ED.

SECONDARY EDUCATION

Sirs:

We wish to compliment LIFE for its splendid contribution to the field of education by presenting the series on "Secondary Education,"

> THEODORE J. TOPOROWSKI President

Berkshire County Teachers Assn. Adams, Mass.

Sirs:

Thank you for your splendid coverage of the "Parochial High School" (LIFE, Jan. 18). I am a Protestant, but I can understand and sincerely appreciate the tremendous good the Catholic parochial schools are accomplishing in a world threatened by the chaos of godlessness.

PAUL M. VEST

Santa Monica, Calif.

Sirs:

Educational segregation of the nation's children by religious denomination is as abominable as segregation by color because it tends to create great cultural cleavages among the Protestant, Jewish and Roman Catholic sections of the community. . . .

FREDERICK VOORHEES BRONNEN Flushing, N.Y.

Sirs:

Personally I feel that parochial schools, whether Christian or Jewish, are the only answer for those parents who want their children to receive an intensive religious as well as secular education. The solution they provide is much more true to the spirit of the American Constitution

CONTINUED ON PAGE 13

Samsonite, World's Strongest Card Table ... at \$1395

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STRONGEST ...LAST LONGEST

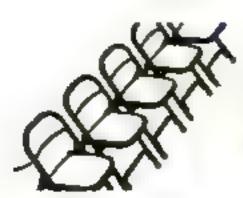
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Serve this dessert masterpiece tonight...



LETTERS TO THE EDITORS CONTINUED

than the introduction of sectarian religious teachings and practices in public schools.

RABBI MORRIS HECHT Poughkeepsie, N.Y.

Sirs:

Pope Prus XI in his encyclical, "Christian Education of Youth," speaks of coeducation as false and harmful to Christian education.

Exceptions such as the coeducational high school at Great Falls, Mont. exist, but they cannot be called the Cotholic idea!

JOHN PATRICK McLAUGHLIN Minneapolis, Minn.

• While the tendency of Cathobe education is for separate schools for boys and girls, exceptions are often made for financial and other reasons. In Great Falls, where it would be difficult to obtain funds for separate schools, boys and girls are segregated for classes in religion and guidance.—ED.

Sirs:

We feel that you have expressed well the deep spiritual aim of our Catholic schools, . . .

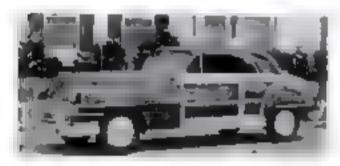
States Millored Marke Contral Catholic High School Creat Falls, Mont.

THE '54 CAR

Sire:

Buick was the first to build the hard top in mass production ("'54 Car: Three Years Old at Birth," Livit, Jan. 18), but Chrysler built the first actual hard top in early 1946.

This was the Town and Country Custom Club Coupe (below), which



consisted of a steel top mounted on the convertible club coupe body. The side window posts (technically known as "B" posts) were removed, and the chrome window moldings could be rolled down completely out of sight, just as in present day hard tops. The reason you seldom see one of these cars is that very few were built.

BROOKE FARIA

Freeno, Calif.

PRECOCIOUS SWIMMER

Surs

I was shocked by "A Precocious Lady Swimmer" (LIFE, Jan. 18).

I think the baby is only displaying the natural evolutionary processes. She should be "awimming" in her Bathinette where she belongs.

ROSALYN UDOW

Great Neck, N.Y.

BUSINESSMEN'S LUNCH

Sire:

The example to our young people presented by the spectacle of the Beaumont, Texas Round Table Club ("LIFE Goes to a Businessmen's Lunch," LIFE, Jan. 18) left me a little nauscated.

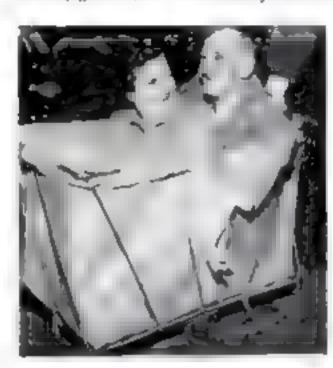
Some of the money that flows so freely for frivolity could be put to better use.

MRS. MILDRED SPRAGUE

Alameda, Calif.

Sur

Your photographers mussed the best shot of the day (below). The young man (aged 78) in the laundry basket



is Walter L. Pondrom, Chairman of the Board of the American National Bank of Beaumont. The young lady with him is Autrey Bordages, whom you pictured in your story in an impromptu hula.

It was a great party.

NELSON O. RICHARDSON

Beaumont, Texas

THE LOST CITY

Sics:

The mountain backdrop of Portland ("The Lost City," Live, Jan. 18) in 11,245-foot-high Mt. Hood, which is a part of the Cascade Range and complete with ski lifts, tramway cars for the tourists, and hot buttered rum.

Where, oh where, by the way, is the Silver Star Range? I have never heard of it

DIXON PARRY

Portland, Ore.

• Many Portlanders seem unaware that part of the Cascade Range near the north shore of the Columbia River is known as the Silver Star Range. The peak in LIFE's picture is Silver Star Mountain, not Mt. Hood.—ED.

PRIZE BAKERS

Sira:

More than 100,000 camelias plants in this camelias city are blushing with shame to think that you should call that very beautiful camelias which Mrs. Claude Jones is pinning on her blouse an orchid (Speaking of Pictures, Life, Jan. 18).

E. A. Combatalade

Sacramento, Colif.

• Life blushes too .- ED.

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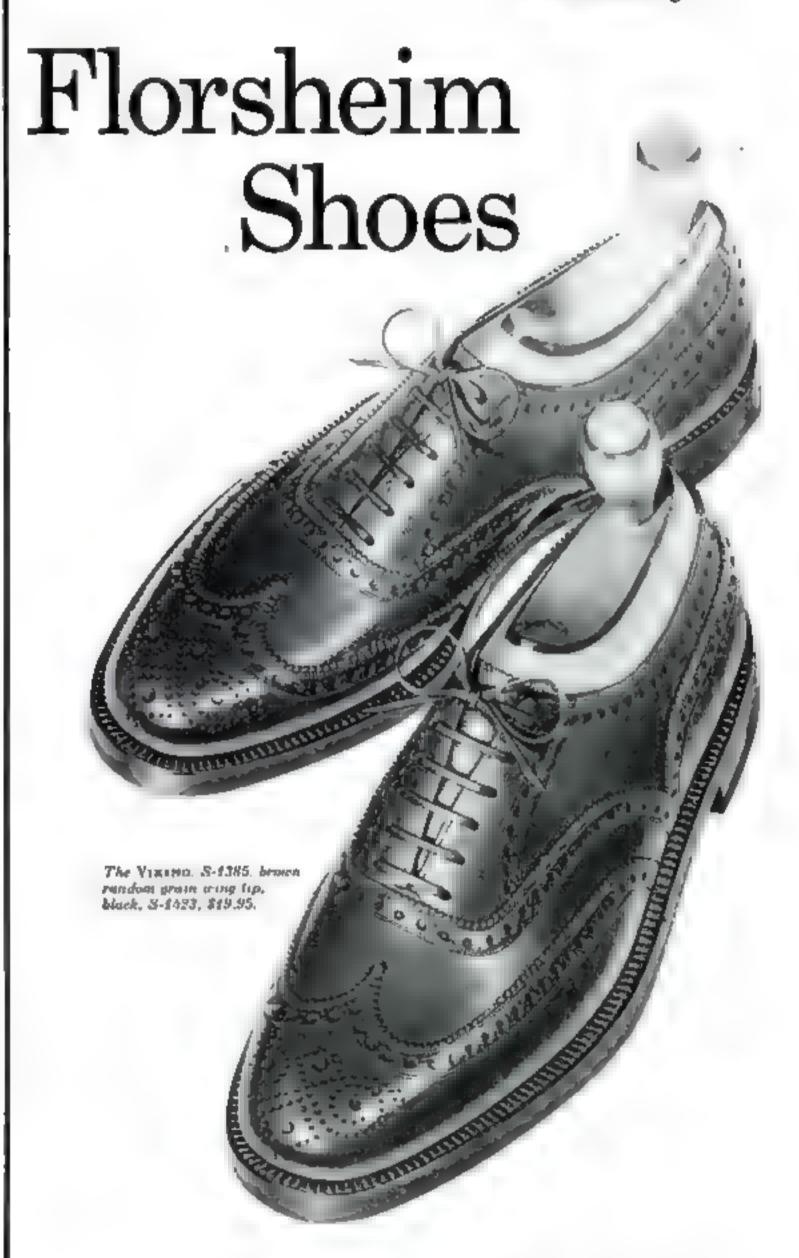
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A crisp slubbed fabric of Celanese acetate and rayon, with the look of a rich shantung. Navy, oxford, tang brown, gold, pink, or blue. Sizes 8 to 20. \$25.

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†*Reg. U S. Pat. Off,

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AS SHOWN ON PAGES 14 & 15

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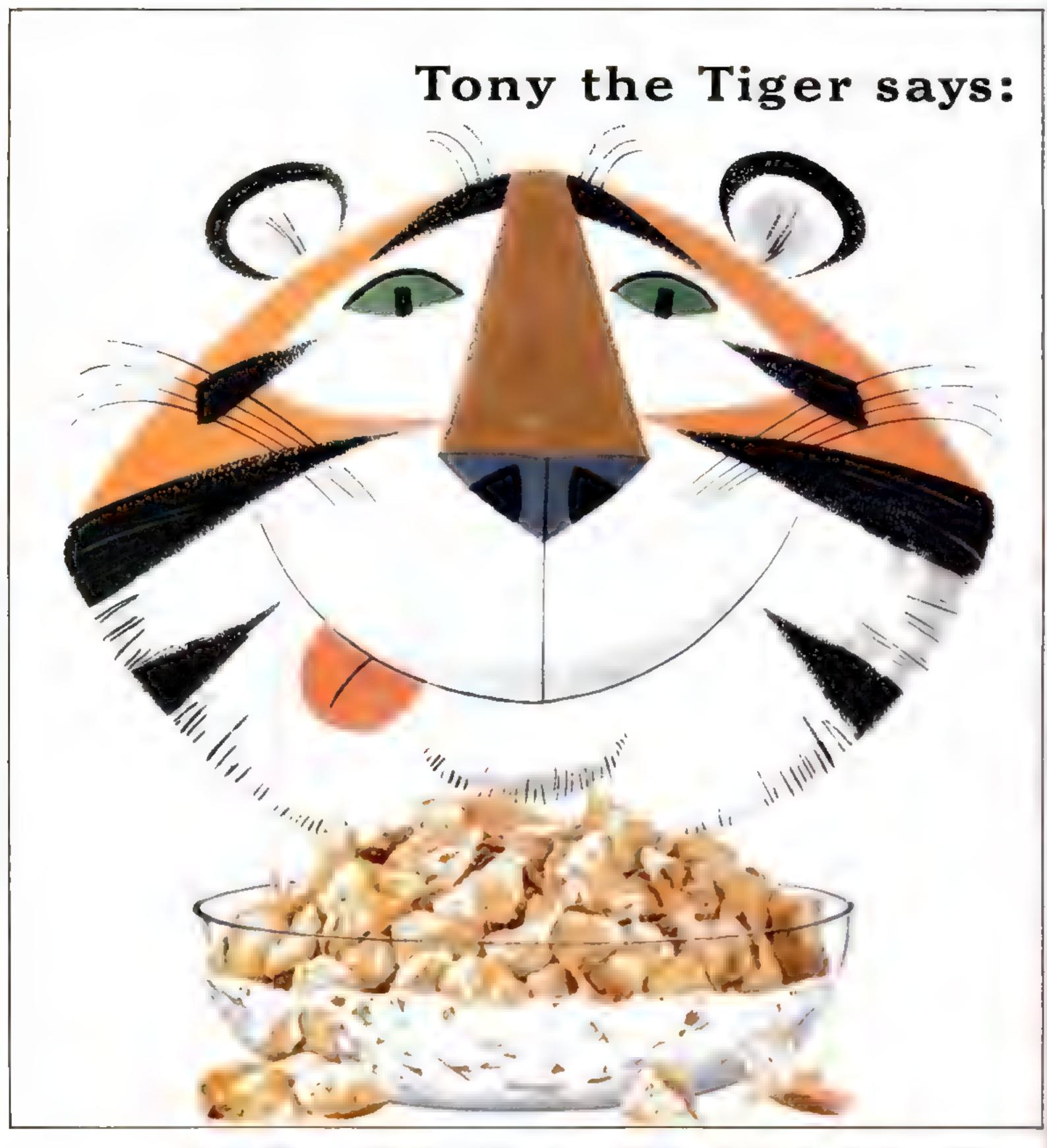
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Seems like everybody's getting hep to Kellogg's new Sugar Frosted Flakes. Only trouble with these big flakes of corn, sparkling all over with Kellogg's secret sugar frosting, is this: they go so fast that before you know it there's nothing left but a big







grin! Better get another box before this gr-r-reat favorite is all gone in your house!

> *"Real Gone" is Tony's hep-cat way of saying "Out of This World"-and Kellogg's Sugar Frosted Flakes really are!

FROSTED FLAKES



He made history sit for its portrait ...

n Hancock

IT'S HARD to figure sometimes what makes a man do the thing he should do, when the time for doing it comes. Take Mathew B. Brady, photographer.

There he was in 1861, all set up with two big fancy "galleries" in New York and Washington, earning fame and fortune very comfortably by taking portraits of the rich and great. Prince and President, Society Matron and Senator—only Mr. Brady would do when you wanted a photograph taken.

So what does this little Irishman do but leave all that, and go off in a wagon to live in mud and discomfort, get himself shot at, and spend a fortune for the privilege!

But a war had started between the States. And something told Mathew B. Brady that putting that war in accurate, truth-telling pictures was more important than posing Mrs. Van Aster in a new party dress.

Friends and relatives argued against leaving his profitable business but, as Brady said later, "Destiny overruled me... I felt I had to go; a spirit in my feet said go, and I went!"

And from then on, war was never quite the same to the people back home not fighting it. For Brady's pictures of war weren't pretty like the paintings had always been. You saw the mud, the twisted, horrible bodies of the dead, the ruin and the awfulness.

All up and down the battle lines this little man in his straw hat and long linen duster drove his "Whatizzit" wagon, as the soldiers called it, loaded with chemicals, tanks, glass plates, cameras and portable darkroom equipment. From Bull Run, to Antietam, to Gettysburg, he became a familiar but puzzling figure to the troops as they watched him, under fire, stand beside his big, ungainly camera while he opened the shutter and coolly counted off the seconds.

You couldn't bring a war into a studio, so he took his "studio" out to the war. And that's how Mathew Brady made history, even as he photographed it. For he was the first pictorial journalist... the godfather of today's news photographer and combat cameraman.

It cost Brady a fortune to lead the way. He died a poor man. But by doing the thing he should have done, when the time for doing it came, he left a rich heritage to the man with courage and a camera, who goes out to photograph the truth.

MUTUAL LIFE INSURANCE COMPANY
BOSTON, MASSACHUSETTS



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UNDERSEA CAMERA AND ASSISTANT (LEFT). HUGHES WITHOUT PORTFOLIO

THE LOWDOWN ON RED CORAL AND RED MORALE

It would be hard to find two more inaccessible places on earth to assign anyone than Moscow and the Great Barrier Reef of Australia. Nevertheless this week's issue has pretty intensive coverage of both these antipodal spots, thanks to the energy and resourcefulness of two staff members, Writer Emmet Hughes and Photographer Fritz Goro. Both assignments had similar obstacles to surmount—Hughes and Goro each had vast distances to cover, with the permission and frequently the help of the governments involved. Both travelers, for different reasons, met considerable difficulty in approaching their subjects.

But here, at least from the point of view of inaccessibility, the similarity ends. On the Low Isles in the Barrier Reef where he and Reporter Axel Poignant were attacked by a shark, Goro rigged a scaffold with a waterproofed camera on the end (above). He plunged it down to coral depth while he scanned the sea floor through an old orange crate with a kitchen window affixed

to its bottom. This way he took many of the spectacular "Coral Recf' pictures in our story on pages 74 through 94.

Hughes, on his part, had originally set out to get an interview with U.S.S.R. Premier Georgi Malenkov. Like many another newsman, he had applied for a visa specifically to do this and to everyone's surprise he got it. Most surprised, apparently, were the Soviet officials in Moscow to whom he duly presented himself for the interview. Europe-wise Reporter Hughes had kept his eyes open from the time he landed and when, after endless Kremlin double talk, it became obvious that no interview was forthcoming, if one was ever intended, he was well started on his own investigation. Talking to whomever and seeing whatever he could in the few days remaining to him, Hughes came up with a two-part estimate on Russia. The first instalment, which appears on pages 114 through 131, is far more penetrating than a brace of propaganda-loaded replies by Malenkov could ever have been.

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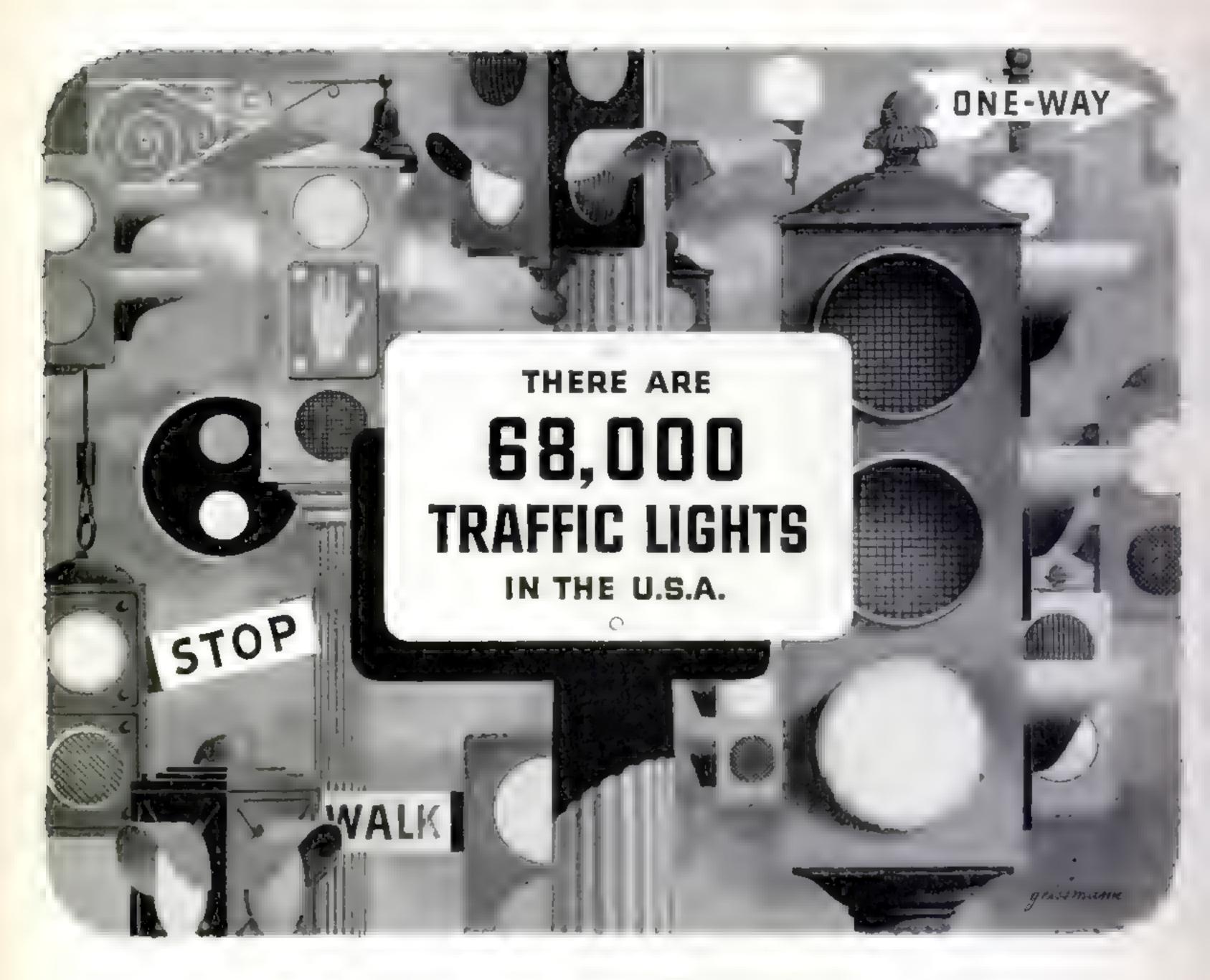
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125 MAP BY ELMER SMITH IZI SOVEOTO 1) PEAN SCHOOLKOPF 132 THROUGH .37 - LOOMIS DEAM 130 - ROY PINNEY COUPTEST PHOTOGRAPHY MAGAZINE

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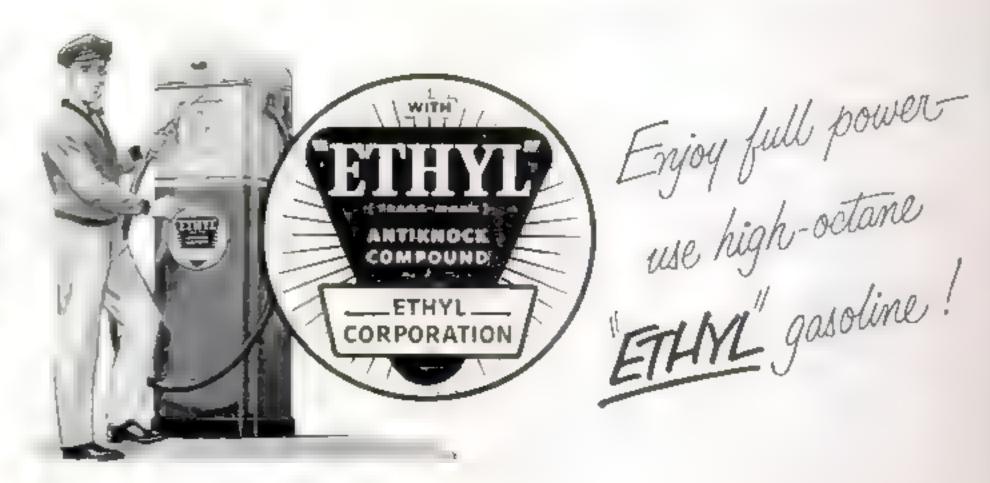
— and you can feel the value of <u>high-octane</u> gasoline at every one!

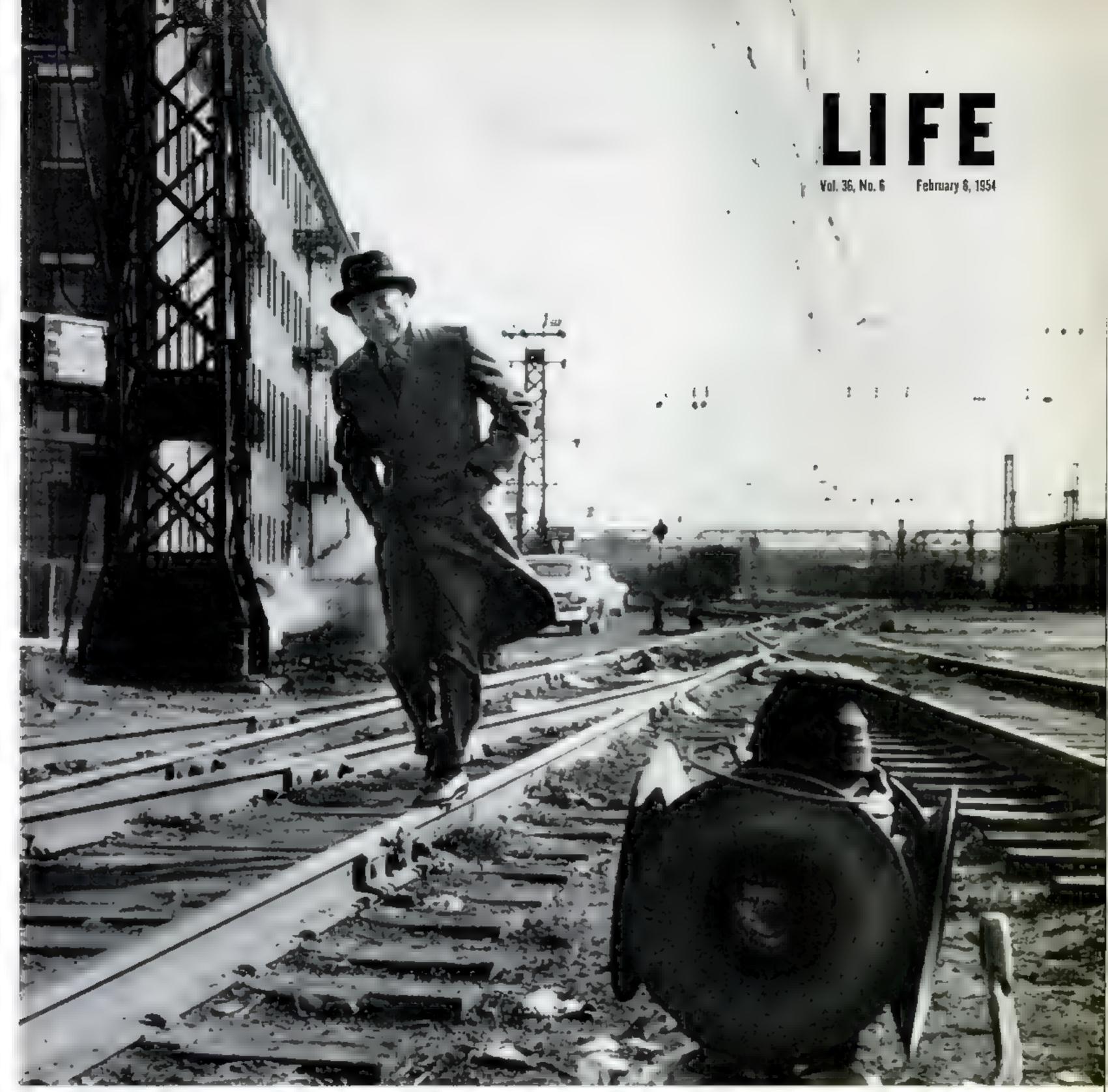
It takes a lot of power to get a ton and a half or more of automobile moving from a standing start. And the more power you have—the quicker and easier you'll get going at a light or other stop.

The amount of power you get out of gasoline depends on its octane rating So—no matter what other qualities you want in your fuel—be doubly sure to get high-octane gasoline. The way to be sure is always to use "Ethyl" gasoline. Look for the familiar yellow-and-black "Ethyl" emblem on the pump.

ETHYL CORPORATION

New York 17, N. Y. . Ethyl Antiknack Ltd., in Canada





AT 55, RAILROADER BOB YOUNG SHOWS IN NEW YORK YARD THAT HE CAN STILL BALANCE HIMSELF ON THE RAILS, A FAVORITE PASTIME DURING HIS TEXAS BOYHOOD

Memo From The C&O To The New York Central

Seven years ago, in a series of newspaper advertisements labeled memos (above), the nation's evoled tiggest railroad, the New York Central, became the target of a war of nerves launched by the relatively tiny Chesapeake and Ohio. The disparity of size might have made this advice on how to run a railroad seem comical to some, but the Central was not amused. It knew that the ads were planned by one of the ablest, brainlest and most ruthless financial strategists in the U.S.—the C. & O.'s master, Robert Ralph Young. It

HERE COMES BOB YOUNG

also knew that Young was determined to grab control of the Central.

Young started his attempt to gain control by having the C. & O. buy 12% of New York Central's common stock. But the Interstate Commerce Commission stymied him by ruling that he could not vote the stock: it was against policy and the Clayton Antitrust Act to permit one man to control two competing railroads. Young bided his time and recently, in a dramatic move, he demanded that the Central allow him to name two

directors on its board and make him chairman.

Through carefully concealed purchases, Young and his associates in recent months had bought up a reported 300,000 shares of Central stock, about 5% of the total. What was more the Alleghany Corp., through which Young had long controlled the C. & O., had sold out its C. & O. shares. Thus Young was left free to vote the additional Central stock he had quietly bought. Now, as Central prepared to fight back, the biggest railroad battle in half a century took shape.

HISTORIC BACKGROUND FOR BATTLE OF RAILS

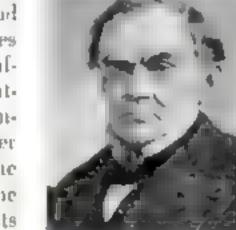


THE COMMODORE

Ruthless battles and financial slick tricks are not new to the N.Y. Central. It was put together by old Commodore Cornelius Vanderbilt, who began buying Harlem Railroad stock at \$9 a share in 1862. Wall Street's laggest "Bear," Daniel Drew, began seding the Har-

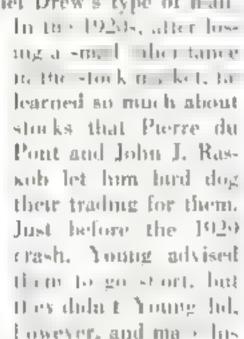
lem short. In the bear raid of 1864, Vanderbilt quietly cornered Hazlem stock, "cleaned" the shorts for a cool \$1 million. Old Drew commented in a rueful rhyme, "He who sells what isn't his'n, Must buy it back or go to prison."

After beating Drew, Vanderbilt spread out and created his railroad system by buying lines from New York to Buffalo, Vanderbilt's greatgrandson, H. S. Vanderbalt, senior member of his family on the Central's board, is one of Young's antagonists in the present scrap.



DANIEL DREW

Bob Young himself, whose rise to riches is told in the pictures at right, is more Daniel Drew's type of n an



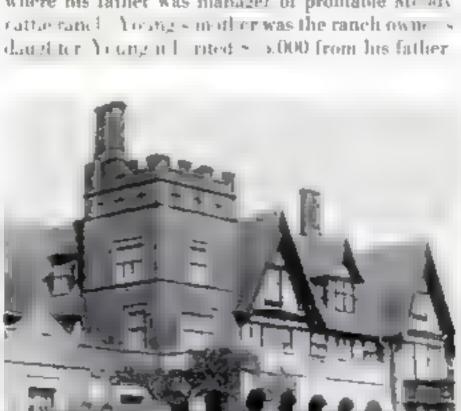


H. S. VANDERBILT

first million. With this stake and the help of wealthy Allan Kirby, who is still his but I have cial partiter. Young bought up the runs of the Van Sweringen empire which was ruled by Alleghans to poal is bug company. The biggest p. ze Y t. 1g g s. will A eghany was the C. & O.



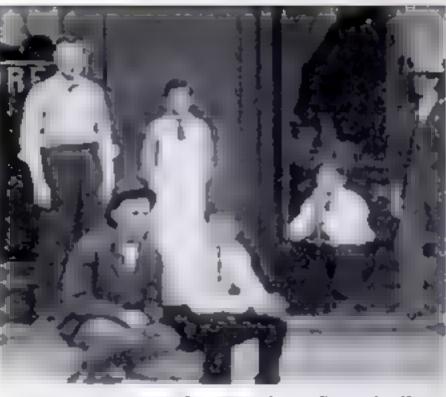
AT AGE ONE Bob Young was in Canadian, Texas, where his father was manager of profitable Me als



NEWPORT ESTATE, Fairliebre, was bought by Young in 1942, has one parametent advant at at its stone s throw from Lawous Vanderbilt mansion. The Breakers Yourgs stay here May through October



REBUILT RESORT, Greenbriar Hotel in White Sulphur Springs, W.Va., was made over by Young at cost of \$1.2 million. He reopened it in 1948 with i lace celebrity filled party (LIFE, May 10, 1948)



FIRST JOB was at Jenuaries Drug Store in Canadian, where Young on waite apron) did odd jote. Town being day dragstern was track social on ter Young similar to a led local W. C.T. U. branch.



ALLY, typis later of Coverage control win You may no en any entrettive bidding for Cincinnot become londs lives between young sold as Compeake and Or stock and non-



"TRAIN X," modeled after a Spanish design, we promoted by C. & O. and shown all over the U.S. Lower and lighter than U.S. coaches, it has only our pair of wheels per car. Train was never put in use



EXPLAINING OBSOLESCENCE of railroads. Young clambers over freight ears, which he considers too heavy, poorly designed. Endless tickets, he says, should be replaced by short, single ones and



reservations should be chargeable and handled by a central reservation bureau. leicles, he complains, form on refrigerator cars because outdated methods include rust-producing brine and block ice. He



claims these should be replaced by med anneal refrigeration. At right he indicates inconvenient car height which was determined century ago by he gl i of cotton bale wagons built for back-country rol 1



FRATERNITY PICTURE taken at Virginia University where Young attended for two years. He quit college to take wartime job at Du Pont.



EARLY BOSS was John J. Raskob, GM vice president. Young, only 32, was financial aide to Raskob, considered one of country's top financiers.



KEY DEAL in Young's career involved purchase of Alleghany Corp., which had interest in a dozen radroads. Young (left) put 1929 stock market profits with \$3 million from Woolworth heir Allan Kirby (far right) to buy Alleghany from George Ball (second from left). Frank Kolhe (third from left) was Young partner.



PERSONAL TRAGEDY for Young was death in 1941 air crash of only child, his daughter Eleanor, whose picture is on mantle at Newport (above) and in all of his many offices and homes all over U.S.



BACKGAMMON is a favorite pastime in the evening with Mrs. Young. Young, a demon at the game, usually wins. Wife is sister of Georgia O'Keeffe, famous painter. She and Young were married in 1917.



OPENING GUN in Young's campaign against the NY. Central and other radzoads was 1946 ad which attacked rail conservatism, saying, "A hog can cross the U.S. without changing trains—but you can't,"



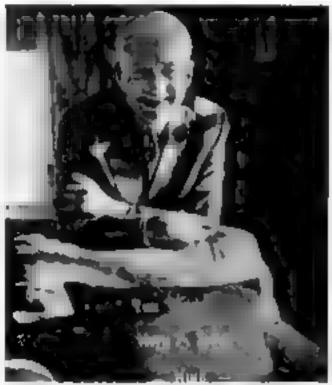
CRACK SHOT, Young (pictured with publisher, the late Gene Howe) often breaks 25 out of 25 at skeet, once cleaned out a shooting gallery.



ly shoots in low 70s, once carded a 69 on the Greenbrian course. Above, Ben Hogan watches as he tees off.



GENIAL HOST, Young welcomes Duke and Duchess of Windsor to a Greenbrian party. Windsors stay each winter at Young's Palm Beach estate.



HAPPY RECIPIENT, Young displays pillow given by the Duchess of Windsor. This is in Young suite in New York's Waldorf-Astona Hotel.



board of directors. "I hope they turn us down. I would rather start out with a whole new board." He



counts on his fingers while estimating that he will triple the Central's profits within five years. To the charge that he is power hungry, he retorts: "Robert Young (pointing to his chest) never took his



eye off a dollar. . . . The men who run the railroads run them for their friends, not for the stockholders or the passengers. That's why they hate me. And then he rubs his hands together gleefully.





Libbett is "neutral," holds C. & O s to restock

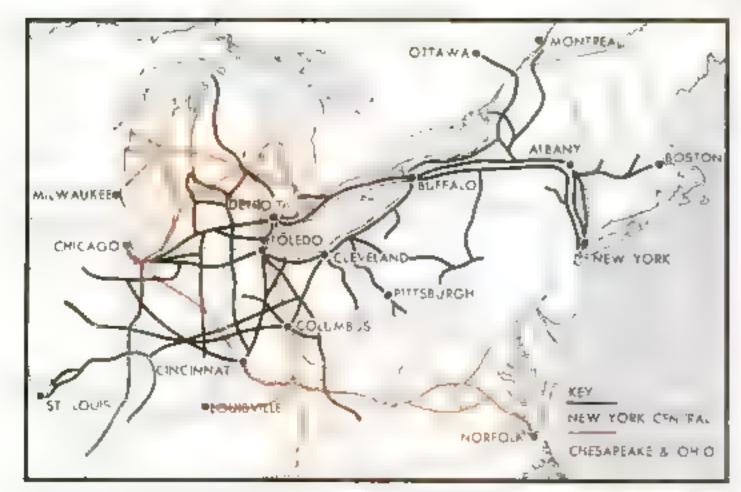


READY TO ATTACK, Young examines lists of 44,000 Central stockholders for lively proxy fight



IN CENTRAL'S COMMAND POST, President William White (ut right) maps battle strategy with

Veteran Finance Vice President William Place Bellund is major Central's sprawho, star flon, system.



TWO SYSTEMS are mapped Central Las 10. 10 miles carried wide variety affects than any passenger. C. & O. (4.301 miles) a prodominant a coal arrier.

STRATEGISTS GIRD FOR CONFLICT

What is Yo mg after in the Central? It has immense wealth (\$2 billion of invested a substant in the Central make money for stockholders. His enemies, considing the CoAO has operated at a proble point out Young's management drove the radr at \$40 million do per into dibtout a paradox Young explains away by claiming the value of equipment was improved \$300 million in the same period. But his openies charge that Young took some of the each into did for new equipment ascillated by Centrals stock now under ICC order, held at trust as the CoAO National Bank, Having sold his CoAO control to his crony Cyrus hato it. Young topes the ICC will be Eaton you the 12%. Whether it has or to Young and If hand at proxy fights, thinks he can win a may rity of Centrals stocklousers.

marole reaches of Grand Central Station and the first tas before at the 1



A FREE SCREEN?

THE SUPREME COURT HAS NOT CHANGED HOLLYWOOD'S NEED OF UP-TO-DATE SELF-CENSORSHIP

NONFIGHTING WORDS

Steel-union men have heard this one, but to others it may illustrate what United Steel-workers Chief David McDonald and U.S. Steel Chairman Ben Fairless mean by a "successful experiment in human relations." To promote a better feeling between workers and management, the two men have been touring steel plants together and talking from the same platforms. McDonald relates an incident of a recent visit to an open hearth. A first helper, a big fellow, was called over and introduced to Mr. Fairless.

"Are you really Mr. Fairless?" asked the big helper.

"Yes," was the reply. "I'm Ben Fairless."
"Well, what do you know. I always said I could lick Ben Fairless, and now I'm sure of it."

"That," said Mr. McDonald, "was a study in human relations."

Movie censorship seems to be undergoing some censoring itself these days. The U.S. Supreme Court has ruled unconstitutional the banning by state censors in New York of La Ronde (on moral grounds) and in Ohio of M (as inciting to crime), Samuel Goldwyn, Hollywood's senior and probably most bygienic producer, rose up not long ago and argued right out loud that the movie industry's 24-year-old morality code—by which the industry is supposed to police itselfshould be overhauled and updated. Howard Hughes, the tempestuous millionaire who bosses RKO, has defied not only the code but the Roman Catholic Legion of Decency in refusing to withdraw French Line, a little stinker in which Jane Russell executes a brief series of what are known professionally as "bumps." Finally, an independently produced comedy, The Moon Is Blue, which deals with sex, though not indecently, was released, also in defiance of the code, and has been a whopping box office success.

Should all movie censors pack up and quit? A little history may throw light on this question. Public concern over movie morals first took militant form back in the nickelodeon days, when in 1908 Mayor George B. McClellan revoked the licenses of every movie in New York because of a film called The Great Thaw Trial, based on the famous murder of Architect Stanford White. The cleansing effect of the mayor's action was neither powerful nor lasting, for in the ensuing years up to 1921 movies got dirtier and dirtier. Frederick Lewis Allen in Only Yesterday quotes a piece of movie advertising typical of the early '20s: . . . "beautiful jazz babies, champagne baths, midnight revels, petting parties in the purple dawn, all ending in one terrific climax that makes you gasp." Large segments of our citizenry, particularly parents of children at the impressionable age, grew pretty sick of this kind of stuff, and there was a strong move in Congress to establish federal control. Hollywood forestalled it by hiring Will H. Hays, the eminent Republican and Presbyterian, as the industry's moral czar.

For a while things went along quite morally under Czar Hays. No matter how violently, and fascinatingly, a character defied ethical standards throughout a film, there was always a steamshovelful of retribution dumped on his or her head at the film's tag end. But when the Depression came along, some producers began making dirty pictures again—interlaced with the punch lines of smoking car jokes and "display sequences," the industry's term for points in a film where the story stopped and one or more of the actresses removed her clothes. By 1933 the Roman Catholic Church, tired of what

it rightly considered the stalling around of the Hays Office, took direct action by organizing the Legion of Decency, after which Joseph I. Breen was engaged by the producers to represent the Catholic point of view and interpret the morality code.

The fact that this code has now been successfully defied, as by The Moon Is Blue, 1not a good reason for abandoning it. The record shows that many producers, if left to themselves, could not be trusted to exercise reasonable self-restraint. The trouble is, the censors can't be trusted either. The workings of the censorial mind are incomprehensible. In the past few years we have seen pictures about seduction and abortion (A Place in the Sun), rape (A Streetcar Named Desire) and adultery (Clash by Night, David and Bathsheba)-all released with morality code approval seals on them. Yet, last November, Paramount was forced to remove three "hells" and one "damn" from Cease Fire! which had been shot in Korea under actual battle conditions with a cast of combat infantrymen.

Movie censorship suffers not only from lack of logic but from overpopulation; in addition to the Breen Office there are consorial boards in seven states and more than 50 cities and towns. It may be hoped that the Supreme Court's decision will eliminate some of these, but not all. In their majority concurring opinion, Justices Douglas and Black came out for a completely free screen, declaring that "every writer, actor or producer, no matter what medium of expression he may use, should be free from the censor." This is indeed a novel application of the Bulof Rights; for the screen is not primarily a medium of information and opinion, but of entertainment and taste.

We think that any censorship is stultifying, and self-control is the best control. But speaking realistically, how much self-control is there in Hollywood? Among individual producers, not enough. Hence the necessity of some such collective control as the Breen Office exerts.

But that fact scarcely justifies the complacence of Eric Johnston, president of the Producers' Association, who recently likened the Breen Office code to the Constitution of the United States—"a living document for living people." The code should be cased to amend than all that; and Sam Goldwen is right—it now needs amending. The U.S. has grown a good deal in the past 20-odd years, and a preference for adult movies has grown along with it. Changes in taste and mores do not necessarily mean a deterioration of morals. Hollywood should reflect the first, while still not permitting its less scrupulous individuals to contribute to the second

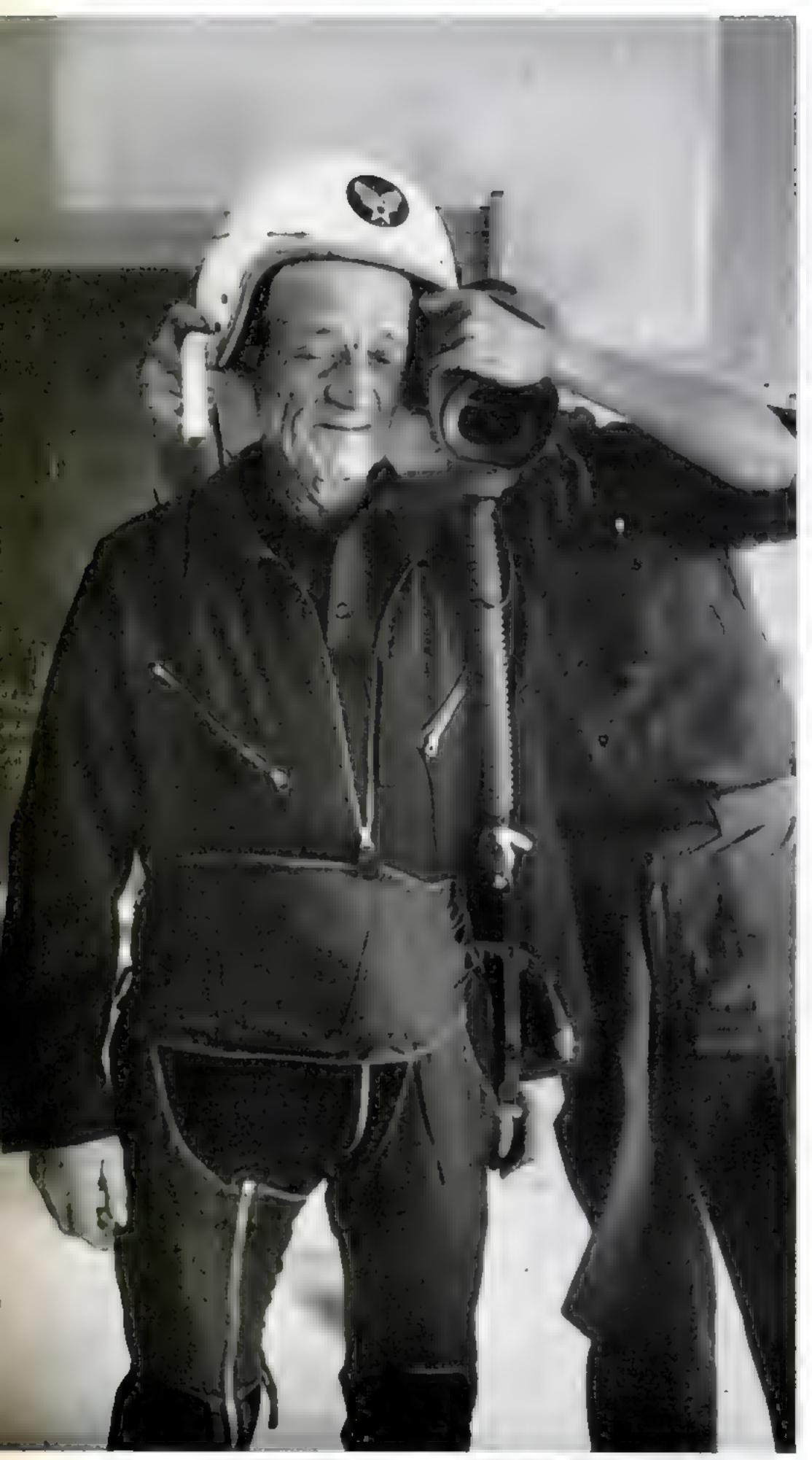


A DOOMED DRIVER IN A MANTLE OF FLAMES

The horror came a quarter way through the city of Buenos Aires race. Eric F. Greene, 50-year-old veteran of Argentine tracks, was flashing down a straight stretch when his car flipped over. Policemen ran to help him, but as they came near they saw Greene pulling himself up

from a pool of fire that had formed around the cockpit. His clothes were alight. The police hesitated, then scattered in terror as Greene stood up, wrapped in flames from head to foot.

In grotesque grace, as if dancing a bery minuet, he ran after the fleeing cops for a few paces, then turned toward a photographer named José Elías Sanchez who took this picture and then fainted. Greene sank slowly to the ground and a doctor came running up to smother the flames in a raincoat. By this time Greene was unconscious. He died in a hospital.



PRIDE IN JET PLANE for grandfather was soppressed desire of 13-year-old gir. So Otto Botan

baugh 65, strapped into a G su t took first plane ride in life. He en oved 500-mph flight in T-33,



TREAT FOR PASSENGERS was the secret longing of Bus Driver John Leslie, who stopped his ball

HIDDEN URGES

Paper answers Denver desires

It as eatherst desires as to the Derver Post asked its next is to reveil their suppressed desires promising to tolar those they considered within and intending. Hur hads of revelations theoretical from assume from as far away is Cornected from hese to Post picked 10 winners and precede to sustitute their urges which therefore index to the tagestry of human leading.

Housewives told of real sect passe he which a med from the round to desire to ride an old fashioned railroad handcar to the rold a practical one of wanting to be turned been in a supermarket to buy everything in eight. Some



MOUNTAIN TRIP by ski-lift satisfied the surpressed desire of Mrs. Allie Ahlstrom, a polio victim



to tell them. "I went you all to go with me to dinner and a theater." Ten of the 25 aboard took him ep.

ARE FULFILLED

for jets, mountains and music

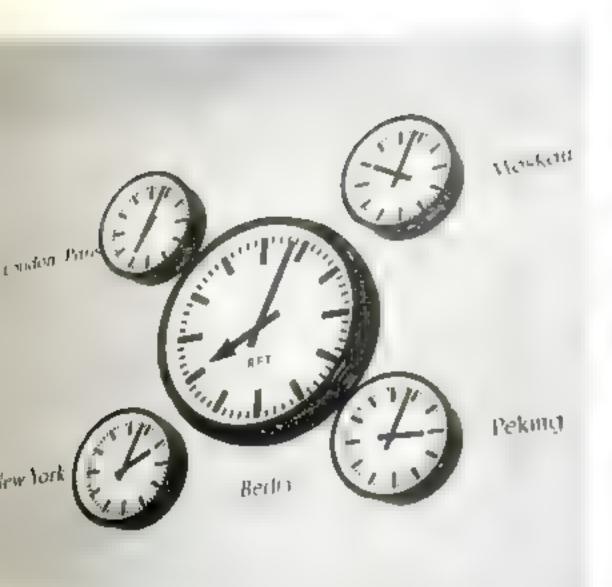
readers had vacarious suppressions, like the gir, who wanted a jet plane ride not for herself but for her grandfather, and the woman who wanted her stand husband to dress up in load sports cothes.

The Post managed to recall to all the winning desires, including those shown here save that of the firl who longed for "Mar on Brando's harry arms around me, his hot breath on my his," (Brando said no.) The will here agreed there was rodning quite like having a secret urgo fulfilled, "Wanted in do that for years," and the boy who had just shot the ornaminis off a Christmas tree, "I feel much better now,"



LEADING ORCHESTRA was wish of Mrs. Roy. Mover, who led Denver Symphony in short number.





PITCH FOR RED CHINA was made by adding Polyng time to close in Societ sector press center.



LATE DEPARTURE from onference is made by Dulles who reads with aid of a special back rat aght on his way home to us waiting wife topposite page).





BIG FOUR" SEDANS WERE LINED UP IN FRONT OF THE CONFERENCE BUILDING, FROM LEFT TO RIGHT

CARS, CLOCKS AND THE

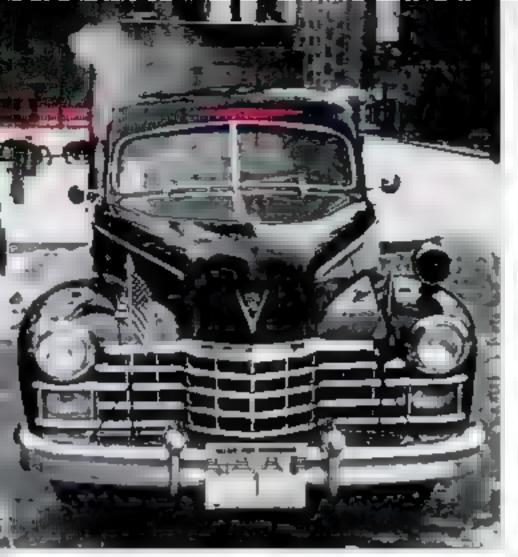
Foreign ministers dispose of some routine talk

Since the Big Four foreign ministers last met in 1919 there had been a 100% turnover. Dulles, Eden, Bidault and Molotov had replaced Acheson, Bevin, Schuman and Vishinsky when the U.S., Great Britain, France and Russia got together last week around a rectangular table in West Berlin. It was the eighth foreign ministers' meeting since the war, and the official-booking trappings (above) were reminiscent of the seven others So too after one week, was its futile Kaffeeklutsch atmosphere.

The four powers were meeting to biscuss Germany's fature, but it was immediately plain that Russia's Molotov had other trings at mind to prolong the conference as long as possible, lure the French away from FDU and generally demonstrate to the world that Russia's peacemaking efforts had again been spurned by the wicked West. He began by proposing a future five-power parley to include—naturally—Red China. He baited the French by hinting to France's Georges Bidault that such a



OPENING SESSION found four-power deligations facing each other sternly across a crowded conference table. The Russians sit in background with their





EDEN'S ROLLS-ROYCE, BIDAULT'S CADILLAC, DULLES' OLDER CADILLAC AND MOLOTOV'S RUSSIAN ZIS

FOUR-POWER 'KLATSCH'

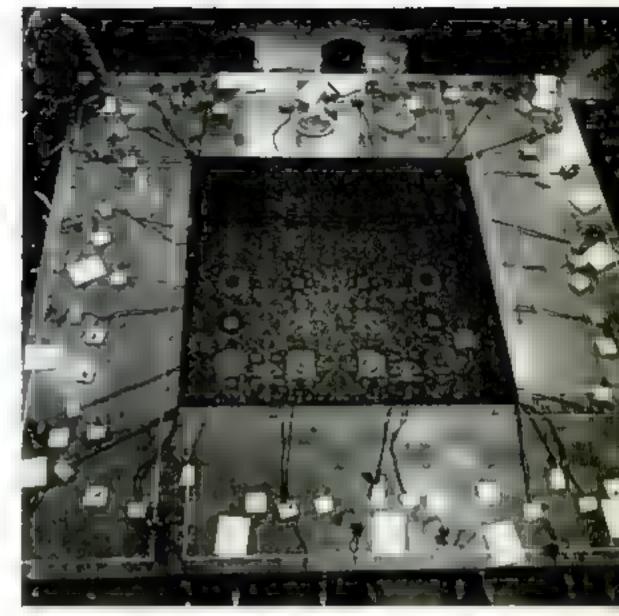
and get down to the business of hard diplomacy

meeting might settle the seven-year-old Indochina war. He also tossed in a rusty old Soviet resolution for world disarmament

These were familiar Russian delaying tactics, but U.S. Secretary of State John Foster Dulles met them with some not-so-familiar counterplays. First he flummoxed Molotov by accepting the Russian's proposal for an agenda, so as not to delay the conference. Then he left it to France's Georges Bidault to rebuff the Russians, and Bidault did. By the fifth day Molotov had been maneuvered into hearing the West's plan for a German peace treaty. It supulated free elections, which the Russians have steadfastly resisted. But the West, led by Dulles, had by-passed the quicksand of procedural argument and got down to the business at hand. On that note the conference moved to the Soviet Endassy in East Berlin for Round Two and a showdown to prove who really wanted the agenda's stated aim of "reducing tension in international relations."



leader, Molotov (center) next to Gromyko. On right are U.S. representatives with Dulles leaning forward. The French are seated in foreground and British at left.



EMPTY TABLE, with earphones for simultaneous translation, is made ready for the opening session.



WIFELY VIGIL is kept by Mrs. Dulles who, standing beside a bronze horse in the window, waits for her tardy husband to arrive at dinner party she is giving.



PRIBILOF POLIO

Young doctor with g.g. battles epidemic on lonely Alaskan isle

Early in January a young girl died of polio on St. Paul Island, in the Pribilofs, which are buried in the mists of the Bering Sea north of Alaska's Aleutians. Then two boys were stricken. The island's lone doctor, a 26-year-old Virginian named Henry Vaughan Belcher, doing his first duty since his internship, radioed the mainland. Epidemic poliomyelitis starting. Request gamma globulin for 180 children."

As the first shipment was flown in, the Virginian took bold command. He forbade congregating or visiting among the population of 369 which lives off the fur-bearing scals which make the islands famous. With the cold Bering winds lashing him he made his lone rounds giving g.g. injections in the islanders' homes. The epidemic reached 15 cases, the worst ones tended in Belcher's five-bed hospital, and he



States Fish and Whalife Service which supervises the processing of fur seals.



DISHPAN OF SYRINGES was left from moculations of gamma globul.n. The g.g., a blood derivative, came from National Foundation for Infantile Paralysis.



DOCTOR VISITED SICK HOMES TWICE EACH DAY

reached the last of his g.g., with only half the children inoculated.

The exhausted doctor went to bed and was awakened at midnight. He staggered out—to deliver a baby. "I felt then that the island would survive," he recalls. That day another plane dropped g.g. for the rest of the population. Belcher finished his inoculations and, with two dead, the epidemic seemed checked.



STRICKEN MOTHER is moculated. She refused to sleep apart from child who had escaped disease.





THE CRACKLE OF FREEDOM sounds in freworks set off by woman whose segred could is in the arms of an officer, as she greets not flor manist prisoners.



A SONG OF COMMUNISM is sunz by William A. Cowart, a pro-Communist prisoner from Arkansas, who entertains I his fellow pro-Reds waiting ride north

HAIL AND . . FAREWELL

In Taiwan last week free China received some 14,200 onetime Red soldiers who, with 7,574 North Koreans, had won their fight to remain in the free world. They were welcomed with bouquets of flowers and baskets of fruit and paraded in trucks down a 20 mde long avenue of theers, tears and exploding faceworks. Chinag

Kar shek's administrators then moved them on to "freedom villages" to start a three-month reindoctrination course in the ways and beliefs of free men before their final liberation

Meanwhile in Korea one Briton, 21 Americans and 325 South Koreans said defiant rood bys to the tree world. They saig travely to

one another, and as they drove north the Eaglishman called back "good luck" to watching photographers. But he and his fellow turncoats are the ones who may need luck. The Communists made it plan that they accepted them not as free men but as prisoners—potential low of as mosome future international poker game.

ARRIVING IN TAIPEH, the capital of Taiwan (Formosa), the returned anti-Communist prisoners pass through city streets jammed with welcoming crowds.



OFF TO RED CHINA, their probable destination, go the 21 Americans with Morris R. Willis and the sack U.S. has dishonorably discharged all 21 or from



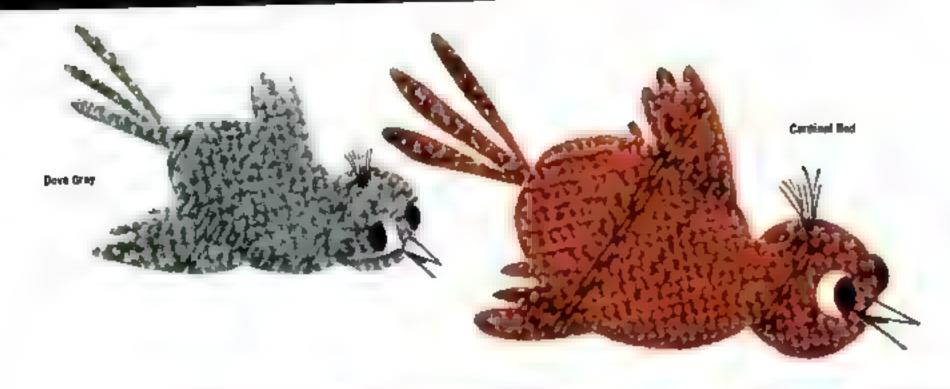
Hot and Hearty...and Tastes Delicious!



Campbell's soups

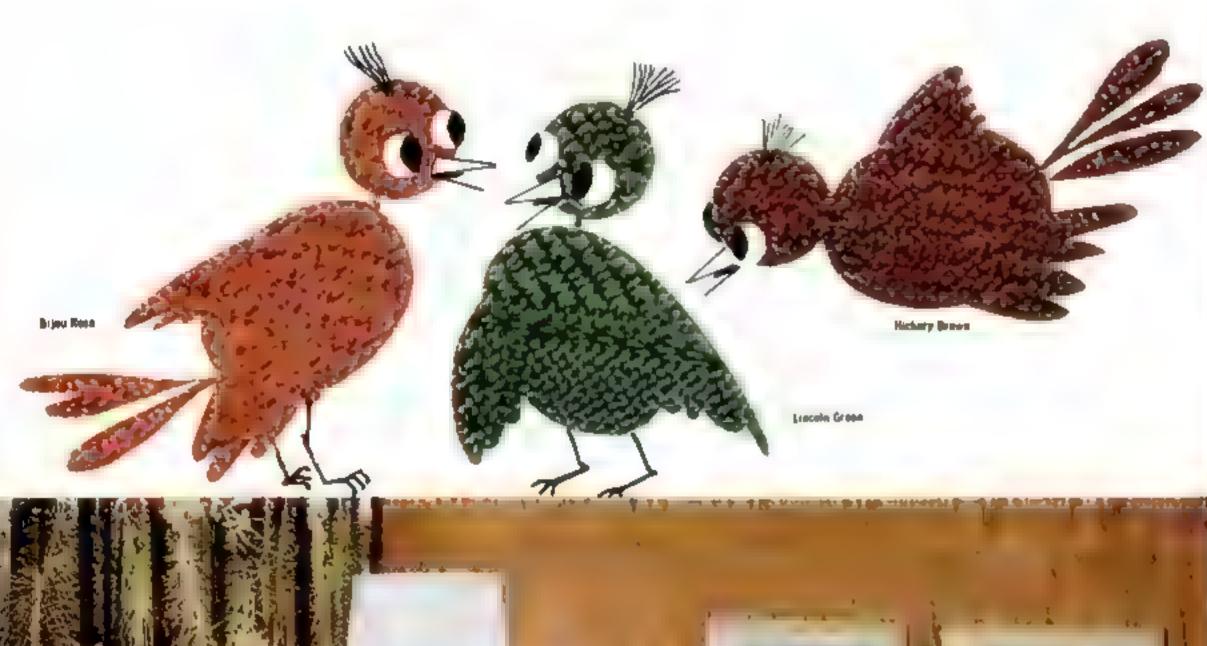
or supper there's no main dish like soup. I

keep plenty of the family's favorite soups always on hand; especially Tomato and Cream of Mushroom—I use them so much in cooking."



This new Kroehler "Broadmoor" Group features Candalon 100% Nylon Frieze by Collins & Oikman.

See the lively, lovely-to-live-with new colors in Miracle Fiber Nylon Frieze... woven by world-famous Collins & Aıkman. Just feel these luxurious fabrics, famed for durability and easy cleaning. No wonder your new Kroehler Cushionized* Furniture will stay new-looking...for years and years to come.









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Compare this unsurpassed furniture value...from-every point of view. Relax in the comfortable luxury of Kroehler Cushionized Furniture. Look at the fresh new styling. Then discover how easily this thrillingly new furniture can be yours. Buy now and save with these special pre season low prices. See your Kroehler Dealer for this extra-special value.

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FIRST CRASH occurred in bush near Nile in Uganda where pilot skillfully set plane down in clearing (left). Flier who spotted it reported no sign of life.

'PAPA' POPS UP AGAIN

A diehard novelist outlives his obituaries

The grizzled gentleman below, who writes fiction that has the ring of truth, is telling a true story that sounds like fiction. He is Ernest Hemingway, explaining how he and his wife twice encountered and escaped death in Africa. Flying over the Nile they dodged a flock of giant ibis, which could have smashed their plane, swooped past seven crocodiles basking hungrily on the bank and crash-landed near a herd of elephants. A passenger plane reported the wreck and newspapers all over the world printed the author's obstuary. But the Hemingways—he with a wrenched arm and she with two cracked ribs—hitched a boat ride to another plane. This one ground-looped on take-off and crashed in flames. Finally turning up at Entebbe by car, "Papa" Hemingway said, "Please don't think I'm doing anything to sell books."

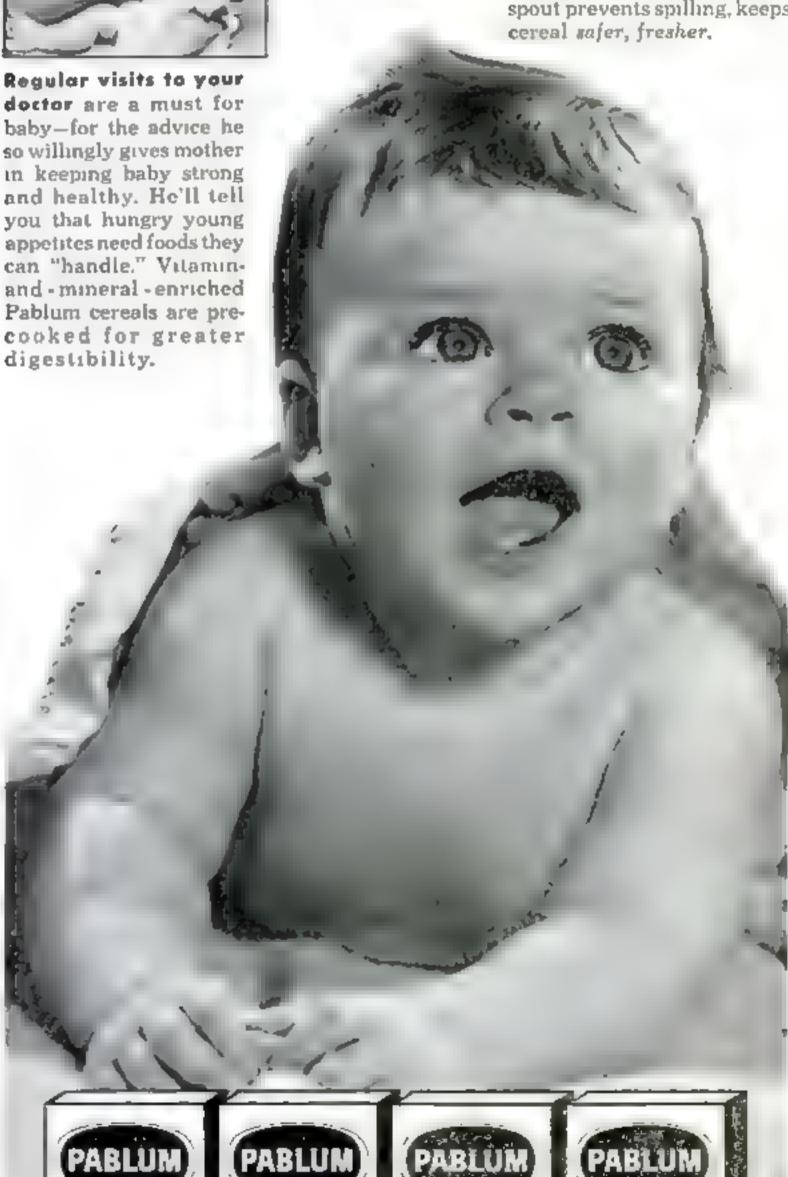


FIRSTHAND ACCOUNT of narrow escapes is given by Hemingway who said he would continue serial safari after picking up another plane in Nairobi.

Trust Mother, little one, to know what's best to start on... best to stay on, too!



prepared just for him Pablum cereals are the only infant cereals produced by a company specializing in formula, vitamin, cereal and pharmaceutical products for infants, children and adults. Exclusive "Handy-Pour" spout prevents spilling, keeps



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Pablem® is the original pre-cooked cereal made only by Mead Johnson & Co.,

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CEREAL

world famous for natritional and pharmaceutical products.

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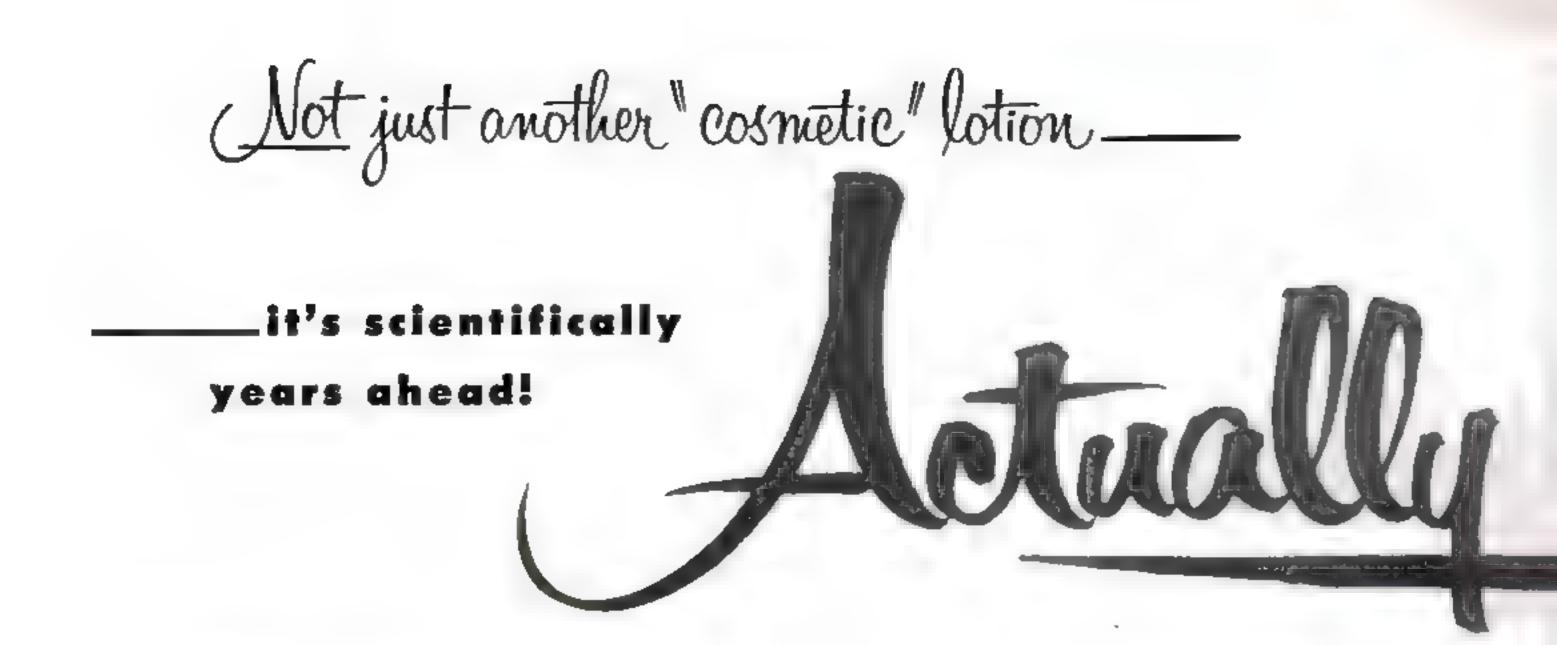
CEREAL

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CEREAL

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Roughness clears—right away Redness fades out

Ragged cuticle smooths and heals Scratchy "detergent hands" soften, whiten

Deep-softening effectsnot just superficial smoothing!

It's a revolutionary lotion-this new Angel Skin by Pond's! Much more than a simple "cosmetic": lotion, Angel Skin has been scientifically designed to promote natural skin health ... to heal chapped skin.

At last this is possible, because Angel Skin's remarkable formula-different from other hand lotions—is not stopped on the surface of your skin . . . but goes deep.

Angel Skin's goodness penetrates to the living skin tissue—right where roughness, redness and dryness really begin. This is why Angel Skin's amazing effects do not wear off in a few minutes. This is how Angel Skin actually houis chapping!

You feel its penetration! No sticky coating left on your hands!

So different from other lotions which just superficially slip over the surface of chapped skin -all of Angel Skin's richness is taken up by your skin at once. You smooth in Angel Skin . . . you feel it disappear. Not a trace of stickmess remains on your hands.

The new lotion specially created to treat dried-out "detergent hands"

Today's powerful laundry products put your hands under constant attack. Angel Skin has an entirely new kind of formula specifically designed to counteract the harsh effect of detergents.

Remarkably unlike other lotions—Angel Skin neutralizes the drying, chemical action of detergents and soups . . . helps prevent irritation! Housewives report amozing Improvement in their hands after using Angel Skin.

Sensitive, exposure-reddened hands become genuinely softer and whiter.

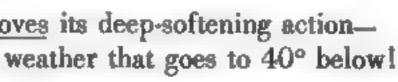
Skin loses that rough, parched shine. Tender, split cuticle skin heals quickly. Sandpapery legs and heels smooth out so they can't snag nylons.

Proves its deep-softening actionin weather that goes to 40° below!

undergo hundreds of tests in this country. Results here were phenomenally successful! Then-Angel Skin was given its most difficult assignment.

Pond's sent their lotion to housewives in Alaska. There in the biting weather of the far North, Angel Skin proved its revolutionary deep-softening action! Women were amazed that it not only smoothed skin, it healed chapping. "Where can we get more-quick?" they wrote.

Get fragrant, creamy-pink Angel Skin today. See its amazing effects on your skin. Only 49¢, 25¢, plus tax. (Sightly higher in Canada)

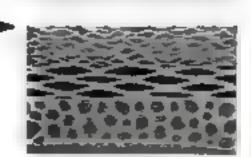


Before Angel Skin was ready for you-it had to

MAGNIFIED SKIN DIAGRAM SHOWS HOW ANGEL SKIN'S DEEP-SOFTENING ACTION HEALS CHAPPED SKIN

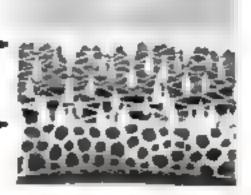
DANKE POAIGES

stop at skin surface 🖚 They give skin only superficial smoothing



ANGEL SKIN penetrales this outer skin surface 🖜

Gives immediate help to living skin tissue \Rightarrow where chapped redness and roughness begin





O 1954, Pond's Extract Co.

heals chapping!

GIVE IT THE VERY HARDEST TESTS-



Chapped, red hands—See Angel Skin smooth and whiten dry, rough skin right away. Redness fades out. And Angel Skin's deep-softening action heals chapped akin. It's scientifically years shead!



Hangnails—Revolutionary new Angel Skin softens and smooths away ragged cuttele that causes hangnails. Split cuttele becomes soft and even again. And it's a wonderful cuttele softener when you give yourself a manicure



Scrotchy "detergent hands"—Angel Skin is a new lotton created to meet the urgent new problem of today's strong detergents. Angel Skin counteracts the drying chemical action of detergents, helps prevent irritation



Parched, flaky elbows and arms—The healing richness of Angel Skin restores normal color and softness to coarsened, "off-color" elbows. Dissolves away dry flakiness on arms, shoulders and face



A new kind of softener—never sticky! All of new Angel Skin's richness "goes in" right away—because, unlike old-style lotions, it contains no guminy "filler." Your hands feel silky, caressable, never sticky-moist



Clip this coupon—send for a "PROVE-IT" sample

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LIFE ON THE NEWSFRONTS OF THE WORLD

Turkey's president comes to call on his allies, the V.F.W. starts an argument, TV publicity is too good



BAYER MEETS A TIMID TURKISH CITIZEN

President Celal Bayer of Turkey, arriving in Washington for the first visit to the U.S. any Turkish president has made, addressed members of Congress and reaffirmed his country's policy: "Turkey thinks along exactly the same lines as do you." Later, at an embassy reception, he offered to shake hands with the 6-year-old son of a Turkish diplomat, had to coax the frightened lad out from under a table to do so (above). Then with his wife he set out on a swing around the rest of the U.S.

Who is un-American?

The Veterans of Foreign Wars post in Norwalk, Conn. provoked a national debate when it revealed it is giving the FBI lists of people it suspects of being subversive. This brought quick denunciations from Norwalk's mayor: "Who has the right to set himself as a screening agency?" Replied V.F.W. Post Commander. Albert A. Beres (below)—who has three sons named Bock, Brew and Ballantyne-"If a person is acting like a thief, skulking around, it is your responsibility to tell police. It's the same with subversives." Other V.F.W. men split on the issue. Most approved, but a few opposed the program, G.O.P. congressional investigators approved of the plan, and President Eisenhower said nobody could be prevented from turning suspects in. J. Edgar Hoover had no comment. Twelve European newsmen visiting Norwalk said they could not tell what was going on.



A BRITISH NEWSMAN QUESTIONS BERES

British scientists reported that England's enture race of native frogs may be in danger of extinction because a strain of large, cannibulistic French frogs have invaded England. Their favorite food: live English frog, caught on the hop.

The curse of a famous face

Ex-convict George C. Poper was having a hard time providing for his ailing wife and their four children because employers always fired him when they discovered that he had once been in prison for burglary. So he went on TV's Strike It Rich show, told his hard-luck story and won a \$165 cash prize plus offers of extra help from viewers. But his appearance also landed him behind bars again because Texas police who wanted him on a theft and embezelement charge tuned in the show and recognized his face. This turn of events did not surprise Poper. His wife said he had foreseen that he would likely be caught if he went on TV but took the chance anyway. Arrested in Spring Valley, N.Y., he agreed to waive extradition and go to Texas to face his trial.



A HOODED GOUZENKO CHATS WITH PEARSON

At a farmhouse "somewhere in Canada" Drew Pearson persuaded former Russian Code Clerk Igor Gouzenko to come out of hiding for a TV interview. Gouzenko, wearing a gray hood, talked about Russia's Canadian spy network in which he had worked and said the Soviet expected a war. He made no startling revelations about U.S. Communist apparatus but warned the U.S. to keep an eye on Soviet Ambassador Zarubin.

Army investigates Schine

At Fort Dix, N.J. an Army inquiry was begun to determine whether Pvt. G. David Schine had been getting preferential treatment. Before induction Schine was on the team of Cohn and Schine, investigators for Senator McCarthy. Other GIs had complained that he was let off guard duty and KP, was given extra passes that no other recruits got and was never reprimanded for breaking regulations.



SPANISH STUDENT MIMICS CHURCHILL

France's mobs get out of hand

New riots and stonings of the British Embassy in Madrid to protest Queen Elizabeth's proposed visit to Gibraltar were staged by 8,000 university students acting with the implied approval of Franco. The British government sent Spain a stiff note protesting the Hooligan ism and pointedly canceled a goodwill visit by the royal navy to Spanish ports.

Suddenly the fickle rioters struck again, not at the British this time but at Franco's police who had incurred the mob's anger by belated by attempting to control their vandalism. Having whipped up the riots in the first place, the embarrassed government now branded the students' actions as subversive.

Italy's new Premier Fanfani took his program to parliament for a confidence vote, needing support either from the moderate left or the right. The left objected to his anti-Red attitude, the right to his reform programs. Beaten 303 to 260, his 11-day job ended.

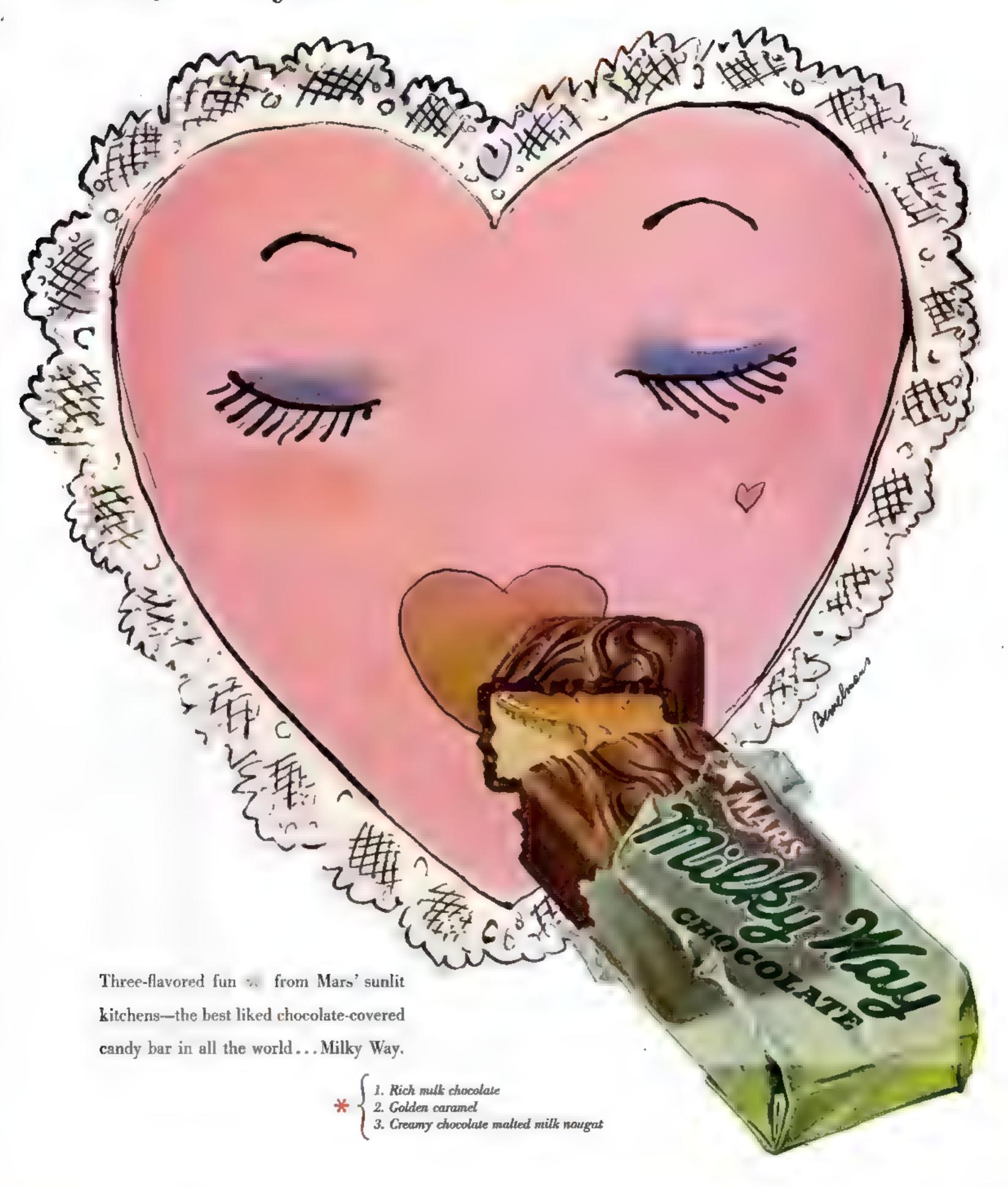
A menument for Queen Mary

Visitors to St. George's Chapel in Windsor Castle got a look at an elaborate monument to the late Queen Mary. It is a stone effigy, carved 16 years ago by Sir William Reid Dick, which has beside a sculptured likeness of King George V. Both surmount the stone tomb which holds the bodies of the royal pair.



LATE QUEEN'S EFFIGY RESTS BY KING'S

to my candy kid ... FEB. 14, 1954







PRESIDENT COTY DONS INSIGNIA AS LEGION OF HONOR CHIEF

FRANCE INAUGURATES A PRESIDENT

René Coty assumes office with proper pomp

France had not held a ceremonial presidential inauguration since 1931 and all record of the traditional formalities had been lost. But her protocol experts managed to muster up enough of the old French savoir-frare to get René Coty installed with a proper pomp as second president of the Fourth Republic. An obscure lawyer and Normandy politician, no relative of the perfume manufacturers, M. Coty was chosen mainly because he was the conservative least obnoxious to the other conservatives. The office he took over has few inherent powers, and ordinarily French presidents do little more than live in palaces, visit hospitals and unveil statues. But presidents must also glue governments together. Under Coty's able predecessor, Vincent Auriol, governments came apart so frequently that the president had to evert extraor linary influence to create new ones. As a result, the office that M. Coty now holds has taken on challenging importance.

ON AN IMPORTANT DUTY of hes office. Coty and Mme. Coty visit the Lariboisière hospital in Paris to beam on little Alice, an unappreciative child



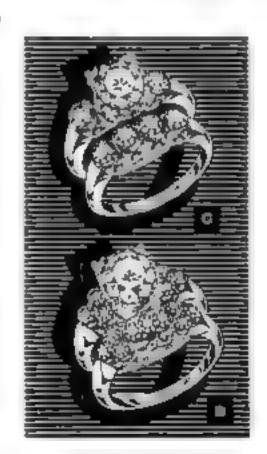


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If the name Keepsake as in the engagement ring, yours is a perfect center diamond guaranteed by the famous Keepsake Certificate. In many new styles from \$100 to \$10,000.



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The Motorola miracle that adds

new richness to the Golden Voice of radio!

Now, you can enjoy console-quality tone in a smarter, more convenient, lighter-weight radio. Listen to this amazing new Motorola with exclusive Extended Tone speaker. You It hear bass and treb e never before possible in small sets. But that's not all I You'll hear the finest tone quality obtainable in any set of comparable size . . . Golden Voice radio at its finest. See the new Motorola table models with Extended Tone speaker today. Model 63X1A, above, in walnut, \$37.95. Ivory or green, slightly more



Stream hed Table Radio 53H1 \$24.95



Porta Clack Radio
534C \$44.95 Eatteries extra)



53C6 \$37.95

Better See the "MOTOROLA TV HOUR" on ABC TV, Tuesday evenings in most cities.

Better See Motorola Radio

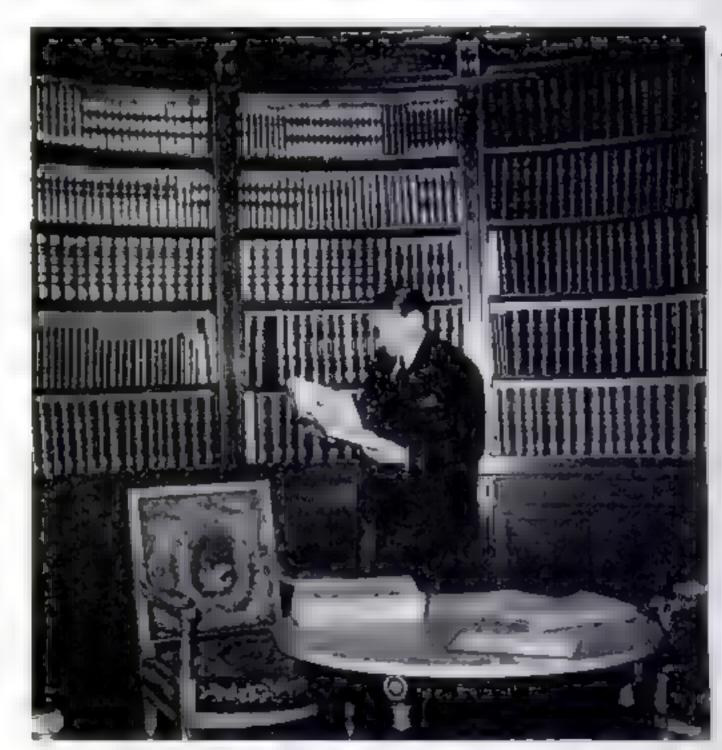
French President CONTINUED



FAMILY GROUP inspects the presidential hunting lodge near Paris. Strolling about are Coty, his wife and two of their granddaughters with fiances



walking in Park in front of the Flysor Palife, distal resolve of presidents of France, President and Mine Coty are accompanied by adaptive.



PRESIDENTIAL LIBRARY at the palace releaves a close look over from the new tenant. Besides being a reader, the president likes plant a record



JELL O IS A REGISTERED TRADE MARK OF GENERAL FOODS CONFORATION

Chocolate Butterscatch Lemon

Coconut Cream



2 big, bountiful, budget-wise

The story here is short and to the point: Evaporated Milk is pure whole milk with all the cream left in . . . only the water removed. It works wonders in your cooking because it's creamy-smooth and rich with all the goodness that belongs with milk. Yet it's easy and so very economical to use. Try Evaporated Milk in one or both of the family-pleasing, economy dishes pictured here and you'll never again be without it on your pantry shelf. That's a promise!

> See Bob Crosby, 3:45 EST, Tuesday and Thursday, CBS-TV; Listen to Bob Hope, 8:30 EST, Friday night, NBC-Radio

Homemaker Service and Research for the Public. supported by Dairy Farmers across the Nation.

American Dairy Association "Voice of the Dairy Farmer"

20 North Wacker Drive, Chicago 6, Illinois

Heavenly Ham Loaf with pickle stuffing

using Evaporated Milk and canned luncheon meat

Mest Laver:

- 2 12-ounce cans luncheon meat 136 cups fine dry bread crumbs
- lá teaspoon black pepper
- la teaspoon powdered thyme 1/2 cup finely chopped onion
- 2 eggs
- 2 cups Evaporated Milk

Pickle Stuffing:

- 2 teaspoons prepared mustard 1/2 cup Evaporated Milk
- I cup fine dry bread crumbs 11% cups sweet pickle relish

In mixing bowl, shred luncheon meat into bits by running tines of fork over meat. (Or put through food chopper using medium blade.) Add the 11/2 cups crumbs, seasonings and onion. Mix thoroughly. Beat eggs slightly with a fork, then add 2 cups Evaporated Milk. Add egg-milk mixture to meat mixture. Mix thoroughly. Pack half the meat mixture into well greased loaf pan (10% x 5% x 3 inches). For the pickle layer, stir mustard into ½ cup Evaporated Milk, Add I cup crumbs and pickle relish and blend. Spread pickle stuffing evenly and firmly on meat layer. Pack remaining half of meat mixture over pickle layer. Bake in moderate oven (375° F.) I hour and 15 minutes. Makes 10 to 12 servings.



meals made with Evaporated Milk



Easy Tuna Newburg

using Evaporated Milk and canned Tuna

- 3 hard cooked eggs, sliced
- 2 7-ounce cans tuna, drained
- 1 4-ounce can mushrooms 1 cup shredded Cheddar cheese
- (% pound) 3 cups Evaporated Milk
- 6 tablespoons butter
- 6 tablespoons flour
- 1/8 teaspoon pepper
- 34 cup dry bread crumbs 2 tablespoons butter,
 - melted

Arrange sliced hard cooked eggs in bottom of buttered 11/2 quart casserole. Cover with drained tuna broken into bite size pieces. Drain mushrooms, saving liquid. Scatter mushrooms and half the cheese over tuna. Melt the 6 tablespoons butter in a saucepun over low heat. Blend in flour and pepper. Remove from heat and blend in mushroom liquid. Return to heat and cook until mixture is thickened, stirring constantly. Continue to stir, blend in Evaporated Milk slowly. Cook over medium heat until sauce is thickened, stirring all the while. Pour over ingredients in casserole. Top with crumbs mixed with melted butter. Scatter remaining cheese over top. Bake in moderate oven (350° F.) about 35 minutes until mixture is bubbly and cheese lightly browned. Makes 6 to 8 servings.





Video Rushes in Where Angels Fear...

NBC, \$175,000 AND EVANS PUT ON RICHARD IF

For two seasons Broadway's commercial theaters have gone without a Shakespearean production, thus breaking a 20-year tradition. But television has more than filled the gaping breach, with Henry V, Hamlet and Othello last season and so far this season with the tragedies of two tortured kings—thear and Richard II. By far TV's most successful Shakespeare to date, King Richard II, telecast last week by Hallmark (NBC).

TV) to 55 cities and 30 million people, was also TV's best acted and most sumptuous. Its cost, \$175,000, may explain why hard-pressed Broadway producers and angels have not tackled Richard since 1940. Brilliantly edited down to two hours by its star, Maurice Evans, Richard reached its highest point (below) when, in his final hours in prison, Evans' deposed king rose to a tragic and ironic majesty he had never achieved on the throne.



CAR OWNERS! SAVE THIS ADIT MAY SAVE YOU

Here are car insurance facts that may save you from financial disaster. Not to mention anxiety. And trouble. When you insure with Liberty Mutual, you get protection that guarantees your peace of mind. You get service designed for your benefit. And you get Liberty Mutual's advantages at a cost so moderate you'll be surprised. In fact, you are invited to compare Liberty Mutual with any other company.

READ THIS NOW

There's a difference in dollar strength among insurance companies. Standard authority is Best's Reports, in which Liberty Mutual gets the highest financial roting: AAAAA.

Careful selection of policyholders cuts losses. Direct service cuts operating expense. Together they have enabled Liberty Mutual to give automobile policyholders (regardless of accidents) savings through dividends, currently 15% in most states.

Your Liberty Mutual salesman is on a salary. He's paid to serve you. You fare better by this direct sales service.

Wherever you drive in the USA, you're within reach of Liberty Mutual service. You get service and protection in all 48 states.

Are you driving to Canada? Don't worry Laberty Mutual provides service and protection there. Driving in Mexico? Liberty Mutual can arrange for coverage

You can summon help by calling the Liberty Mutaal claims man at any hour of the day or night, in the U.S., Canada or Hawan. That's the meaning of 24-hour claims service.

When you want insurance information fast, you deserve a quick, correct answer During business hours a hornsed Service Representative is always beside the Liberty Mutual telephone...

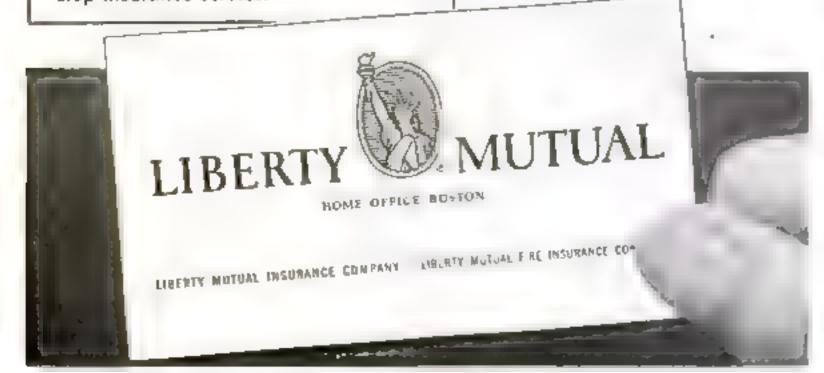
It's a great advantage to get the same direct, friendly service on home as well as car insurance — both non-assessable. Liberty Mutual gives you this "one-stop insurance service."



when you call the Liberty claims man. He can be reached at any hour of the day or night — from anywhere in the United States, Canada or Hawaii. You'll find him in principal cities, coast to coast.



No ex to grind! The man from Liberty Mutual who comes to see you knows that his advancement depends on his taking care of your interests. He's on salary — paid to protect policyholders.



*RICHARD II' CONTINUED



DYING MAN'S CURSE for misrule and oppressive taxation is burled at King Richard (right) by John of Gaunt (Frederic Worlock), whose son the king has banished. Says Gaunt, "Landlord of England art thou now, not king!"



REPORT OF REVOLT led by exiled Bolongbroke is spread by Northumberland (Louis Hector). He tells Exton (Jonathan Harris), "... we shall shake off our slavish yoke, Redeem from broking pawn the blemish'd crown ..."



HIS KINGDOM LOST to Bolingbroke, Richard is summoned by mounted Northumberland from Berkley eastle battlements to come down to a parley Bitterly, Richard agrees, "Down, down I come, like glistering Phaeton . . . "

Rosaland Russell says [N] Filters are Just What the Doctor Ordered!



I wanted a cigarette with a filter I could depend on and a flavor I could enjoy. I read the letter below from Dr. F. R. Darkis, Director of Liggett & Myers Research, and changed immediately to L&M Filters. I recommend them to you."

Starring in the RKO picture "The Girl Rush"

Rosalind Krussell

LICGETT & MYERS TOBACLO CO.

DR F R DARRIS

Extensive investigations of possible filter media were initiated in our laboratory and by our consultants early in 1951. The search continued until a strictly non-mineral material was found that effectively filtered the smoke. This is the material used in "L&M" Filter Tip cludes. Pure white in color, and used as an harmless to health.

Alpha cellulose is the purest material now available to filter digarette smoke. It removes over one-third of the smoke without alpha cellulose filter is specially designed to remove the heavier particles light smoke.

When you smoke "L&M" cigarettes, made and guaranteed by Liggett & Myers Tobacco Company, you draw into your mouth much less nitrogenous constituents.

Light \
and Mild

MUCH MORE FLAVOR
MUCH LESS
NICOTINE

U. S. Patent Pending

ONLY LEM FILTERS GIVE YOU ALL THIS ...

- 1. Effective Filtration, from a Strictly Non-Mineral Filter Material—Alpha Cellulose. Exclusive to LaM Filters, and entirely pure and harmless to health.
- 2. Selective Filtration—the LaM Filter selects and removes the heavy particles, leaving you a light and mild smoke.
- 3. Much less Nicotine—the LaM Filter* removes one-third of the smoke, leaves you all the satisfaction.
- 4. Much More Flavor and Aroma. At last a filter tip eigarette with plenty of good taste. Reason—La Y Filters' premium quality tobaccos, a blend which includes special aromatic types.

*U.S. Patent Pending



FILTER TUP

Cigarette s





CAMEO COPPER CLEANER

Leading food stores now have Cameo Copper Cleaner, the new discovery that makes tarnish disappear presto! Instant-acting powder requires no hard rubbing —works miracles on copper, brass, stainless steel, chromium on your car. Get Cameo today and send for your copper sauce pan.

Cleans metals faster, easier or double your money back!



Big 8 oz. can 39#



HI RRYING DOWN LADDER for next scene, Maurice brains remains regal dignity as he descends from 38-foot castle specially constructed for the TV production. Costumes were from Evans' historic 1937 Broadway show.



Boy, wouldn't any of us hate to get one of these!

Not that we expect many of us will. But—why tempt fate?

Seriously though, don't you agree Cupid has a better chance if all of us make sure we really get rid of "morning mouth"? (You know—that stale, furry taste and bad breath most of us have in the morning.)

Chlorodent will do just that! Because it contains lots of chlorophyll—not just a dab.

And that's not all. It's got a patented cleansing agent that brightens your teeth better than any other toothpaste formula.

Buy a tube of Chlorodent. You'll discover that Chlorodent will leave your mouth wonderfully clean and fresh. If you don't agree—even after your first brushing—that Chlorodent gives you the cleanest, freshest, best-tasting mouth you ever had, Lever Brothers will return your money and postage. Fair enough?

"Auti-enzyme," too, for continuing decay protection

Contains water-soluble chlorophyllina



Mom's kiss

AND COMMENTS OF THE PRANCE OF

CHILDREN'S FAVORITE FIRST AID FOR CUTS AND SCRATCHES

BACTINE is wonderful. It's a powerful germ killer that's soothing and cooling—actually helps relieve pain. Crystal-clear BACTINE gets down deep into cuts and scrapes to kill germs on contact and so prevent infection. Children welcome BACTINE because it doesn't sting. It smells fresh and clean. End fear of stinging antiseptics—buy BACTINE!



LASTING GERM KILLING ACTION

Actual photograph through microscope showing colonies of staphy acaccus aureus germs Igray

crea), Clear space

larrowl is field where

olonies lasting gen

BACTINE was applied. The lasting germ killing action of BACTINE has kept area free of these infection-causing germs for 48 hours.

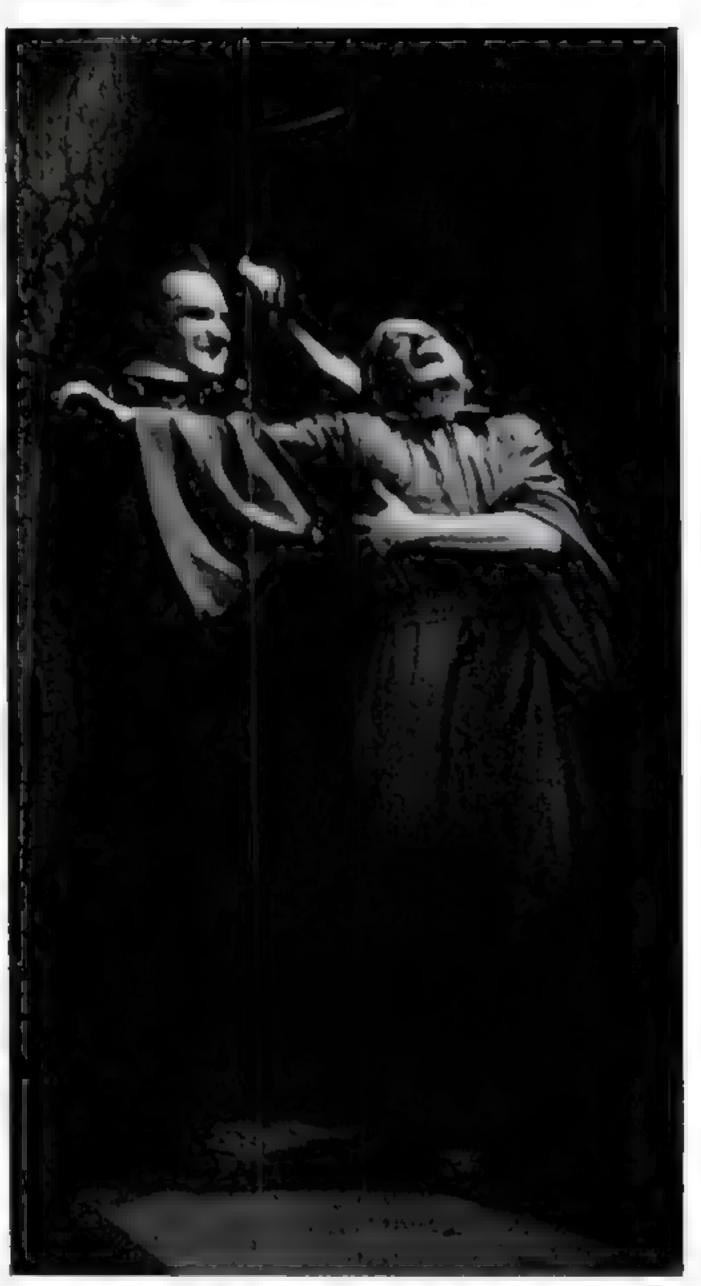
At all Drug Stores

3 convenient sizes

NOTE TO PHYSICIANS—BACTINE is more than a quaternary. While BACTINE is an active germicide, additional fields of effectiveness make it unique among antiseptics. Write for professional literature containing basic research and clinical data.

MADE BY THE MAKERS OF ALKA-SELTZER

MILES LABORATORIES, INC., ELKHART, INDIANA



RICHARD IS SLAIN by Exton as he rushes out of prison after stabbing two other would-be assassina. Turning to Exton, the dying king cries out, "... thy fierce hand Hath with the king's blood stain'd the king's own land."



RICHARD'S FUNERAL is led by Bolingbroke (Kent Smith) who inspired the murder and usurped the throne as Henry IV. But he laments, "I protest my soul is full of woe, That blood should sprinkle me to make me grow."



WINTER WEEKEND, painted especially for Ballantine Beer by Frederick Surbel

The North Wind walks the hills tonight,

But we're snug and warm and the fire's bright.

The concertina whines and moans, And we're happily tired to our bones.

The Ballantine passes from hand to hand— No better beer in all the land!

Flavor that chill can't kill, you know...
A bedtime round...you bet, let's go!



_with the Flavor that chill can't kill!

P. Ballantine & Sons, Newark, N. J.

It's the dividends that

"Morth More"

Greatest engine advances since the original Ford V-8...new ball-joint suspension...new fine-car features and trend-setting style

The dividends you get in the '54 Ford are features of extra value. They stem from Ford's leadership in engineering, Ford's famous manufacturing techniques, Ford's cost-reducing volume. They establish Ford, more than ever before, as the car that's "worth more when you buy it and worth more when you sell it."

Specifically: There's a choice of two new, low-friction, deep-block power plants—the 130-h.p. Y-block V-8 and the 115-h.p. I-block Six—which usher in a wholly new concept of agile performance hitherto unapproached in Ford's price range.

For a ride as advanced as its performance, the '54 Ford gives you the all-new Ball-Joint Front Suspension, the greatest advance in chassis design in 20 years!

Other dividends include such Ford exclusives as the new Astra-Dial Control Panel, new and colorful interior trim and upholstery, together with over-all styling and beauty that are unique in the industry.

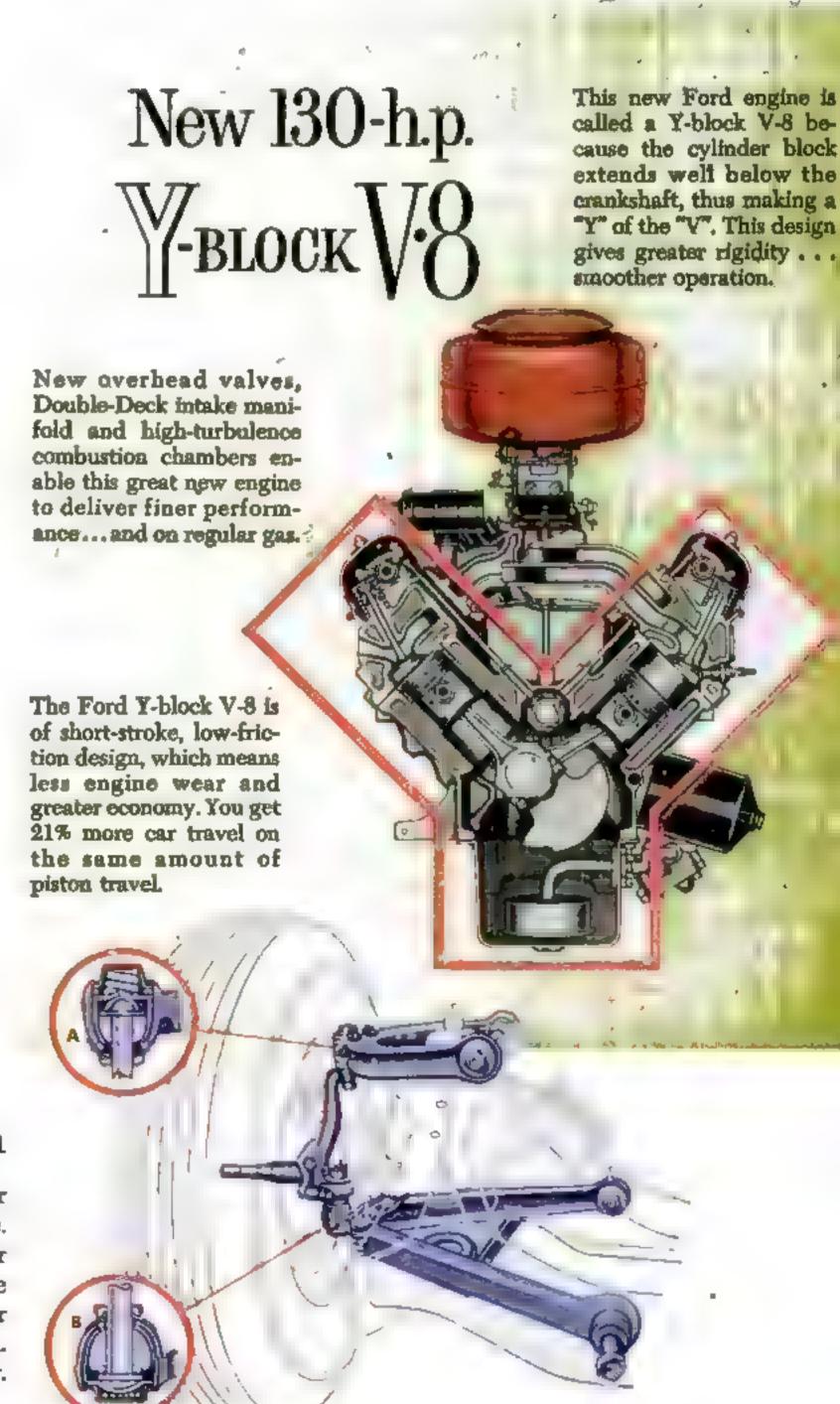
As for choice, Ford offers 3 complete lines of cars -28 models in all—to make possible your selection of a car ideally suited to your taste and requirements.

And, for those who wish all of the worth-while additions usually associated with costliest cars, Ford offers five optional power assists.

Yes, again for '54, Ford is . . . more than ever . . . the Standard for the American Road.

New Ball-Joint Suspension

This new suspension gives front wheels greater up and down travel for a smoother, easier ride. And it keeps the wheels in true alignment for consistently easy handling. Movement of the wheels is about ball joints (see A and B) whether in up and down motion or in steering motion. Lubrication points are cut from sixteen to four.







Colors know the ingredict stor bertim as a like all recorpt portan were Virallen research

You can't duplicate it in a homemade batter; you don't get it in any other mix...

the matchless

of Aunt Jemima pancakes



11. YELLOW "



Wheat, corn, rye and rice flours are blended in the treasured Aunt Jemima recipe... to give you the tenderest, best-tasting pancakes you ever had!

TO TARREST BETT I UN STORE NO. 1 - L 4 . learning to be able to sheet or or the link LES MINHO, PECTORE, P. C. A.D. P. C. A.S. Tabot par as a Roll story and to mean a st arrent trade a trat to in

Don Mc Neill's Breakfast Club is cheers, IBC Ridio, week hivs.



REQUIRED STUDY, RELAXATION

As part of its physical education program, Barnard teaches freshmen to flop restfully, lose tension

Wilting like daisies and flopping like fish, students at Barnard College in New York fill a college requirement in relaxation. Having found that too many students are too tense. Barnard has maugurated a session in relaxation in its Physical Education Department which every treshman must attend. Especially tense girls are encouraged to enroll in a thorough course that meets twice a week, trains muscles to let go. Every student gets a chart

with relaxing exercises to practice alone and is taught to recogmize such symptoms of tension as hip biting, nail chewing, insomma, healache and eve batting (if not premelitated). Barnard considers relaxation so important that other gym courses such as posture correction (following page) and rhytimacs often end up in a 10-minute relaxing session. The college has discovered that as nervous tension goes down, chius, chests and marks go up,



CONTINUED ON NEXT PAGE



If he's the apple of your æeye



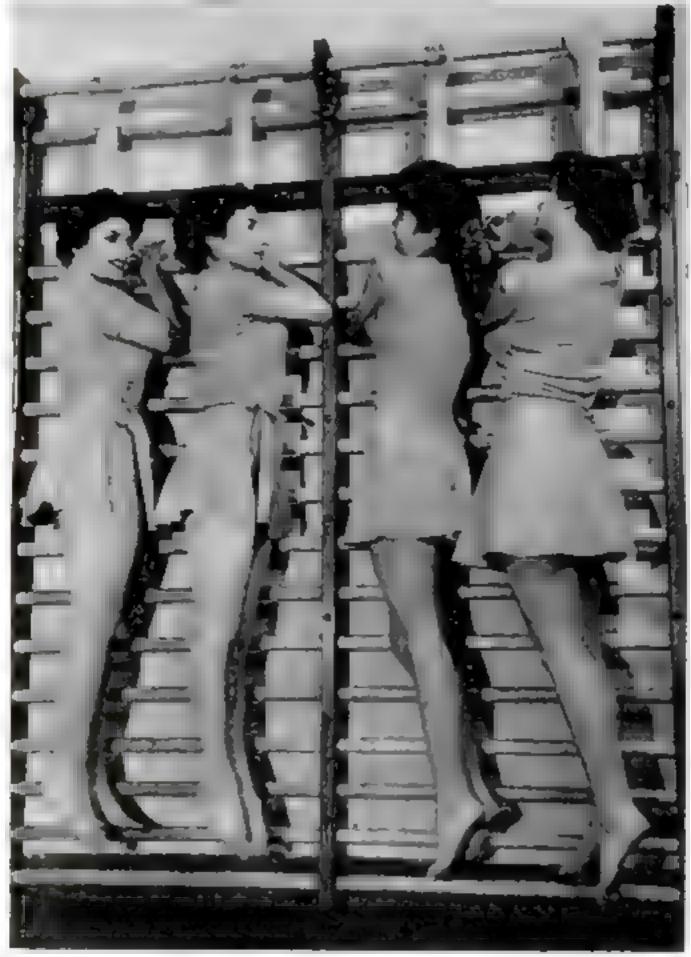
Say I love you, sir or ma'am"



Why not call Western Union now and give us your messages for

Valentine's Day Sunday, Feb. 14





HANGING ON BARS in posture class helps correct uneven shoulders, a common posture fault. Almost 20% of every class needs some posture work.



LEG LOWERING with legs swung from side to side is done to correct protruding abdomen, commonest posture fault. Legs touch mat on each swing.

CONTINUED ON PAGE 64

get caught with your fuel down!



See the man who sells Ronson fuel, flints, wicks?



MILES LABORATORIES INC. Pribari, Indian



Callouses, Bunions, Sore Toes

Super-Soft Dr. Scholl's Zinopadsare 5 ways better. No other method does as much for you!

- 1. Relieve pain in a jiffy . . .
- 2. Remove Corns, Callouses one of the fastest ways known . . .
- 3. Step Cores, Catiouses BEFORE they can develop
- 4. Prevent Sore Toes, Büsters....
- 5. East New or Tight Shoes.



CORNS

CALLOUSES

BUNIONS

New knowledge about meat

Read how complete high-quality protein (the kind you get in meat) helps you



This seal means that all nutritional statements made in this advertisement are acceptable to the Council on Foods and Nutrition of the American Medical Association.

Lose weight safely . . .

A medical school reports a special study in which a number of overweight people lost up to 100 pounds on

people lost up to 100 pounds on diets featuring double portions of lean meat... twice daily.

Meat was made the mainstay of this diet because of the large quantity of protein it provides—complete protein—the kind that's essential for the body's basic needs.

Since protein can't be stored in the body to any appreciable extent, it must be provided daily in adequate amounts by our meals. Without enough protein

body tissues waste away and there is loss of physical and mental vigor.

What's more, meat satisfies hunger quickly, and delays its return. This makes it easy to get along on fewer calories.

Have a better developed baby . . .

Clinical records show that among hundreds of cases studied, expectant mothers who had extra daily portions of meat for assuring adequate protein in the diet felt better, showed less edema (tissue swelling), had

better blood counts. Complications—before, during and after delivery were notably fewer.

Their babies showed superior development, and it was disclosed (through X-ray studies) that good bone structure in the child was related to

the amount of protein in the mother's diet.

Ward off many infectious diseases...

A leading university has demonstrated that protein is important in maintaining your body's ability to ward off many infections, because the manufacture of antibodies in your

system (your "mobile disease fighting forces") depends on an adequate supply of protein.

In addition to complete protein, meat is an outstanding source of B-vitamins (including the important B-12) iron and other essential minerals.

That's why authorities class meat as "one of our best protective foods." Can you think of a hap-

pier way of protecting your health than sitting down to a thoroughly satisfying meat meal?



A medical journal reports from observations of hundreds of children, that even a mild protein deficiency is apt to result in a host of childhood ailments.

Poor appetite, failure to gain weight, decreased resistance to many infections, persistent boils and styes, all were frequently observed in children whose diets were deficient in protein.

But "prompt and dramatic response" followed when these children ate meals that supplied plenty of high-quality protein foods such as meat.

Everyone, every day, needs enough protein... the kind meat provides. But the daily protein requirement of a growing boy or girl may be 3 to 5 times greater, per pound of body weight, than that of either parent!

In addition to the important nutritional values of meat in such specific ways as described above, "Most physicians," says an informative manual published by the American Heart Association, "feel that the high American consumption of protein is a good thing."

All these facts add up to show how right you are in liking meat. So go ahead . . . and enjoy it!

MEAT SITUATION

February, 1954

Meat supplies, continuing plentiful, are running a little ahead of same period a year ago.

Really big change from last year is in how the supply is made up. A shift in the normal supply pattern is shown by comparing production figures.

MEAT PRODUCTION IN POUNDS

Kind of	S mentils ending	Same period	% change
meat	Jun. 31, 1954	lest year	in supply
BEEF	2,505 Million	1,991 Million	up 26 %
VEAL	216 Million	181 Million	up 20 %
LAMB	166 Million	166 Million	ne change
PORK	2,170 Million	2,592 Million	down 16%

Beef, now to of total production has taken the place usually held by pork as our most plentiful meat.

Biggest share is in good medium and leaner grades—ideal for pot roasts, Swiss steaks, stews and ground-beef dishes.

Your meat money will go farther when you adjust your meal planning to seasonal and day-to-day variations in supply—look for best values in most plentiful meats.

Seasonal supply of pork, always biggest during the late fall and winter months, is smaller than usual. Reason: 10% fewer pigs born last spring. Big demand, matched against smaller supply, kept pork prices from dropping to usual winter lows.

Careful shoppers, however will still find many good values in pork. It's a good time to serve some of the more plentiful but less demanded cuts—smoked pionic, for example—that give you just as much good flavor and nourishment as the scarcer and costlier cuts.

AMERICAN MEAT INSTITUTE

Headquarters, Chicago . Members throughout the U.S.

Trust your instinct...you're right in liking meat ... a yardstick of protein foods



Short, petite, medium, tall . . . the Rid-Jid Knee Room fits them all! If she sits as she irons, there is plenty of room for her knees. This eliminates twisting, stretching, straining, saves work, lessens fatigue. No cramped legs, no bumped knees. Ironing goes lots faster too . . . moisture disappears in a flash down through Rid-Jid's patented open mesh top (61% open . . . it truly provides ventilation!) Perfect for stand-up ironing as well as sit-down because it quickly adjusts to ten different heights. Wonderfully strong and solid. Lovely to look at with its sunshine yellow baked enamel top and gleaning chrome legs. She'll never know how easy ironing can be 'till she gets a shiny, new Rid-Jid Knee Room! The J. R. Clark Company, Spring Park, Minnesota.











CONFERRING JUDGES are three Barnard seniors who won contest as freshmen and Gym Instructor Patty Smyth of Sarah Lawrence (pointing).

POSTURE CONTEST ENDS COURSE

Every January, to round off the first semester of physical education, a posture contest for freshmen is held at Barnard gym. Sign in the gym this year read, "The ones who walk with grace and poise are a spectacle so rare, that even down on gay Broadway the people turn and stare," Entrants wear tight clothes, flat shoes, walk around. This eliminates most of them. The rest then have to sit down, get up, walk up and down stairs and pick up books until the judges pick the winners.



CIRCLING CONTESTANTS walk for half an hour, rather like entrants at a livestock show. Girls with poor posture soon begin to slump and are eliminated.



WINNERS (from left) are Susan Kennedy (first), Naomi Perlstein (third), Hiroko Ogawa (second). Dorothy Kiessling, winner last year, congratulates them.





KELVINATOR'S 40TH ANNIVERSARY

AUTOMATIC DEFROSTING AT NO

All have full-width freezers, handy door shelves,



why put up with Messy Hand-Defrosting? There's an excitingly better way today, with a new "Magic Cycle" Automatic Defrosting Kelvinator. And to get this amazing convenience, you don't have to choose a size refrigerator that doesn't fit your needs, or pay a price penalty . . . because Kelvinator gives you automatic defrosting at no extra cost in any 1954 model, large or small, "deluxe" or "standard"!

*Patent applied for

YOU'LL NEVER DEFROST AGAIN! This new 11-cubic-foot beauty is one of five thrillingly new 40th Anniversary Models from Kelvinator, oldest maker of electric refrigerators for the home. By concentrating on the most wanted models, by employing new production techniques, Kelvinator is able to bring you all the quality features you want—plus automatic defrosting at no extra cost—as Kelvinator's birthday gift to you! Typical of these bonus values is huge Frozen Food Chest with exclusive "Wrapped-in-Cold" design, as pictured here in Model MAD-110.

REFRIGERATORS GIVE YOU

EXTRA COST IN EVERY MODEL!

old-clear-to-the-floor, fabulous new color-styling



NEW MAGIC KIND OF DEFROSTING! Unlike ordinary automatic defrosting systems, the Kelvinator "Magic Cycle" system uses no electric heaters. It defrosts without defreezing. Even the most fragile of ice cream molds will stay firm and frozen solid while your Kelvinator automatically defrosts itself and automatically resumes normal operation. Here's the simplest, surest, safest method of automatic defrosting known. And, you get it only in Kelvinator.



NEW SHELF CONVENIENCE! Stop playing "hide-and-seek" and get more storage convenience. Load heavy bottles on your Kelvinator's Duiry Shelf. They'll girde out to your fingertips at a touch . . . all in plain sight! You also get a slide-out and a removable half-shelf so you can conveniently store bulky foods, like watermelons. Your Kelvinator shelves are rust-proof aluminum, far better and sturdier than in ordinary refrigerators.



NEW, DEEPER DOOR SHELVES! All 1954'
Kelvinators have them for you. Load them with soft drinks, ketchup and olive jars, cans of baby foods. They save you hunting small, often-used items. The upper shelf is an egg rack that holds a full dozen. Butter chest in door keeps a pound.



NEW CRISPNESS FOR \$ALADS! New
Keivinator "Moisture-Seal" Crispers give you
"cold mist" that keeps salad makings garden
fresh . . . keeps fruits and vegetables in peak of
condition for weeks! The two illustrated hold
mearly a bushel. Here are real food savings for you!

Electric Refrigerators . Electric Ranges . Home Franzers . Electric Water Andres . Kirchen Cubinets & Stuke . Washers, Beyors & Ironors . Conditioners . Electric Debutuidifiers . Commercial Relatgueration



NEW STYLE IN YOUR KITCHEN! All new 1954
Kelvinator 40th Anniversary Refrigerators bring you glamorous new Sea Tone styling. It glorifies any kitchen, fits any kitchen color scheme. Kelvinator modern long door design gives greater food space in smaller floor space. You can even have door-hinges on the left at slight extra cost.

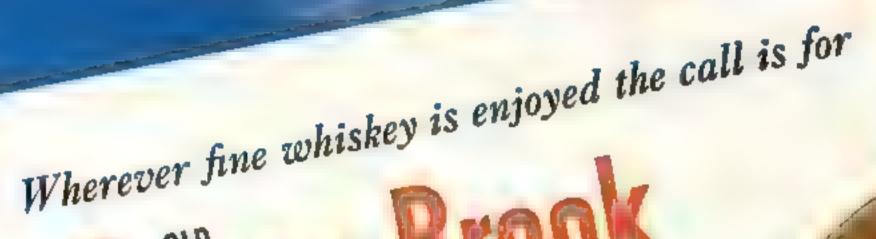
Kalvinotor, Division of Nush-Kelvinotor Corp., Datroll 32, Mich.



SEE YOUR KELVINATOR DEALER AND SAVE DURING

Figure at 40th Anniversary Jubilee of Bonus Values

YOUR KELVINATOR DEALER HAS SPECIAL VALUES FOR YOU IN ALL KELVINATOR APPLIANCES



SUMMY BRAND

Your choice may be Old Sunny Brook blend, mild and mellow -or the rich, smooth straight. And the sun-drenched luxury of Miana Beach...at a Texas skeet shoot or a candleht supper in an elegant town house-wherever you go, you'll find Old Sanny Brook the choice of men of good taste. Blend and Straight, it's the world's largest selling Kentucky whiskey.

"Cheerful as its Name"



BLEND

STATE BROOK

ALCOHOLD BY

STRAIGHT

STATT BROOK





HEAVY-LADEN AND FIGHTING FOR ALTITUDE, A PIRATE CROW TAKES OFF FROM THE UNSEEN UNZEN GOLF COURSE

LINKS LARCENY

Irate Japanese players watch crows soar off with their best golf balls

In Japan a crow's caw sounds "a-ho, a-ho," which also means "fool, fool." Usually the Japanese manage to adopt a superior attitude toward this jeering from the treetops, but recently the crows have added injuries to their insults. In the Unzen National Park near Nagasaki they have taken to diving down and stealing golf balls, preferably those that have good hes on greens and fairways. With balls costing \$1.40 each, it has become difficult to maintain a superior attitude when a robber, after hiding his loot, sits on a nearby bough screaming at his victim "fool, fool."



A YEN-MINE is discovered in nest by two caddies. They add to their income by regular scarches for lost balls.



SHOO-BIRD BOYS race along a fairway chasing a thirf. Best guess as to why crows like the golf balls is that they

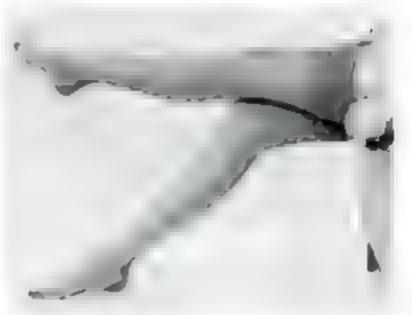
think they are eggs which will produce new crows. When used this way, however, they will not produce birdies.

Now, with all eyes on the shorter hemline, more than ever you need . . .

Volumeingwear, stockings with

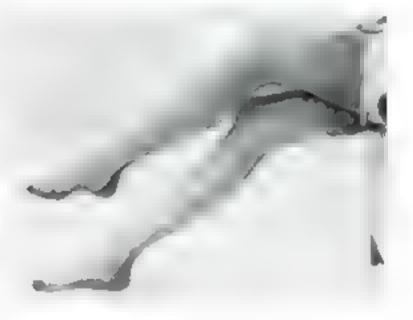
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THE WORLD WE LIVE IN: PART VIII

THE CORAL REEF

Reared by tiny and primitive creatures, master builders of palaces under the sea, its spires and grottoes encompass the most luxuriant domain of natural existence

Text by LINCOLN BARNETT

But here is only movement deep As breathing . . . the reef fish hover Dancing in their silver sleep Around their stone, enchanted tree,

ARCHIBALD MACLEISH, The Reef Fisher

ROUND the periphery of the great wandering sphere on which man rides down the trackless avenues of space there stand many edifices of nature—mountain ranges erected by paroxysms of the planetary crusts, valleys incised by running water and creeping ice, and oceanic deeps formed by inscrutable forces in the earth's hot core. The past articles of this series have described the great structural features of man's environment and the agencies that brought them into being. But in addition to the general land forms, the patterns of rock and water that shape the visible world, the earth encompasses many special areas of existence—windy plains, parched deserts, luxuriant forests. Of these none is more wonderful, none lovelier than the coral reef, wrought not by blind physical agencies but by living creatures, diminutive in stature and primitive in form, yet master builders of the palaces of the sea.

Ever since European explorers began to rove the tropic oceans, the Western world has vaguely discerned the phantasmagoria of coral isles rising, palm-fringed and surf-ruffled, amid the blue desolation of the sea. As the centuries passed the image sharpened; new details emerged—of island necklaces ringing bright turquoise lagoons, and many an arched beach of pastel sands. Below the sun-spangled satin of the waters there loomed a fabulous world of living creatures, more prolific and colorful than any known to man, a magic glimmering realm of flowerlike animals, giant clams and gaudy fish with iridescent scales of gold and silver, ruby and emerald, glinting among the groves and grottoes of the coral gardens.

Until the last century, however, the nature of coral remained a mystery. Today it is generally known that the substance called coral is composed of the skeletons of innumerable small marine animals. Flourishing around the world in warm tropic waters, these tiny creatures are the creators of thousands of reefs, atolls and island festoons, including one of the greatest edifices on the face of the earth, the Great Barrier Reef of Australia (see next page). No one knows precisely how much coral there is on earth, but it takes its place with the mineral substances of the planetary surface as one of the major architectural ingredients of the world in which man lives.

Owing to the blossomlike aspect of coral gardens, with their branching fronds, fans and clusters of infinitely variegated hues, corals were long mistaken for plants. Actually corals are members of the great phylum of the animal kingdom known as Coelenterata, which includes jellyfish, sea anemones and hydroids. An individual coral polyp consists of little more than a fleshy cylinder or tube, ridged inside with spokelike partitions. At the top is a mouth, bearded

with tentacles, serving both as an inlet for food and an outlet for excreta, sperm and eggs; the other end, or pedal disk, is anchored to a limy cup which rests in turn on some solid object, generally the

skeletons of dead ancestors. Voracious carnivores, corals feed on planktonic animals—young fish, tiny crustaceans, worms—which they catch and paralyze with their stinging tentacles. Save for a brief, free-swimming larval stage, corals lead completely sedentary lives; as soon as they settle down, they start secreting lime, and quickly invest themselves in cuplike armor into which they retract for protection. Some corals are solitary, but most forms, notably the reef-builders, are colonial creatures, joined physically in an immense variety of ramified structures which grow upward and outward by budding. It is thus, by the never-ending labor of untold generations of small artisans, each in turn erecting its delicate castle, that the profuse coral islands, reefs and atolls of the earth's oceans have been reared.

Although coral grows in all the seas, the reef-builders exist only in shallow, sunlit, tropic waters—seldom more than 22° from the equator, and rarely at temperatures below 68° F. or at depths greater than 150 feet. Their requirements are rigorous. They must have clean water, for heavy mud and sediment quickly suffocate them. They must have sunlit water, for within the tissues of each coral polyp there exists a form of alga which, it is thought, provides oxygen and abets the excretory process of the coral, and which itself requires sunlight for photosynthesis. And finally they seem to demand restless, moving water, for only through the surge of waves and currents can sufficient oxygen and food be wafted within range of their tentacles.

More than a century ago Charles Darwin observed that there appear to be three kinds of coral reefs: the fringing reef, which fans out from the edge of land in an almost solid shelf; the barrier reef, which is separated from land by a wide lagoon or channel, and the atoll, a coral ring enclosing a lagoon in the open sea. Since coral grows only in the bright surface layers of water, one of the mysteries of atolls and barrier reefs, whose seaward ramparts plunge to depths of thousands of feet, has been the nature of the foundations on which the original growth began. The best answer to this riddle was suggested by Darwin himself and is accepted with a few revisions today: i.e., modern atolls and barrier reefs stand on a sunken basement of ancient fringing reefs that have been submerged either through the slow settling of the ocean floor or a rise in ocean levels. And as the land subsided, or the waters rose, the corals kept on growing upward toward the sun, outward toward the open sea, widening the distance between reef and shoreline, or, as in the case of atolls, until an entire island disappeared into the depths. Final confirmation of Darwin's submergence theory came only recently from Eniwetok atoll, where drills bit downward through layer after layer of antique coral. Finally from a depth of 4,000 feet they brought up a core of volcanic rockvestige of a long-vanished island on whose drowned flanks corals began to build untold ages ago and continued to build, generation after generation, fighting ever upward through the encroaching wa-

> ters, so that the living corals of Eniwetok today bestride the summit of a mighty unseen tower, at once a catacomb of countless creatures long since dead and a monument to the continuity of life.

Photographs by FRITZ GORO and RENE CATALA,
GEORGE LOWER, DON OLLIS, HARRY PEDERSON and J. I. TRACEY JR.
Map by ANTONIO PETRUCCELLI



THE REEF BUILDERS, fiving earal polyge twinkle their tentals in localit Bahamian waters like a field of this It should along the first partie to I have been their total and the fight of day they total

their tentacles and shrink back into their pale store mais his. Enthroned in the end-le of the coral edony is a familiar reel dweller a tubewirm with is feathers gils partially expanded, waving in the coar water like a peace kind.



THE WORLD'S BIGGEST CORAL REEF extends for 1.200 miles along the northeast coast of Australia from the Bunker Islands in the south (left) to the Murray Group near New Guinea in the north (right). The width of the channel or lagoon between the outer fringes of the reef and the mainland varies from about 100 miles in the vicinity of Swain Reefs to a minimum of seven miles. On the seaward ran parts of the Great Barrier the coral walls tall away to depths as great as 5, 200

THE GREAT BARRIER REEF OF AUSTRALIA

ACROSS the tropics of both hemispheres coral structures stud the blue girdle of the eneurching oceans. The mightiest of these and one of the supreme womlers of the natural world is the Great Barrier Reel, a stupendous rampart or submarine buttress. 1,260 nules long and 500 feet high, enclosing a watery domain of approximately 80,000

SARRIER-TYPE REEF is disclosed by sucf crashing against its submerged coral chifs. In this serial photograph, looking south, the 600 to order p waters of the open sea appear at left, the shallow waters of the protected charmel at right.

square miles off the northeastern coast of the Australian continent. Beside it the works of man are dwarfed; it is the greatest single edifice ever reared by living creatures on the face of the earth.

Owing to its remoteness—stretching as it does along subtropical and sparsely populated shores—relatively few people, even Australians, have ever laid eyes on this fabulous coral world. The pictures on these pages are therefore windows opening on one of the most extraordinary and little-known regions of the planet. An aerial observer, looking down on the Great Barrier Reef from a plane, would note that it is not a solid wall, but rather a complex construction in which all three major categories of coral reef (below) are represented. In the south, where the waters are cooler and therefore inimical

AN ATOLL in the Capricorn Group exhibits the characteristic ringlike configuration of coral structures that have grown upward from the shores of sunken islands. Set back from the Barrier's outer edge, the at ill stands in less than 200







feet, Inside, the waters of the great lagoon are shallow, seldom more than 120 feet deep, and dappled with numberless slands, atolls and ancharted coral out-croppings that render navigation hazardons. The islands close to the mainland

represent the peaks of drowned hills and mountains of a facilited or mining ged coastal plain. The clustered isles of the reel are aim ist all of coral coastruction, most of them uninhalated save by a few pearl fi-t erinen and lighthouse keepers.

to coral growth, the Barrier is fragmented, comprising a labyrinth of subsidiary reefs, patch reefs, islets, coral sand bars, atolls, sand dunes and shoals separated by many wide, navigable channels. But as it curves northward into warmer waters, the length of its component reefs increases and the channels between them diminish in number so that for the northernmost 500 miles it presents an almost unbroken parapet, rising like an underwater mountain chain from the depths of the sea.

Although many of the constituent units of the Great Barrier are submerged at high tide and some never rise above the surface at all, they effectively defend the inner lagoon from the violence of the ocean waves. Windward of the reef the waters are white with savage

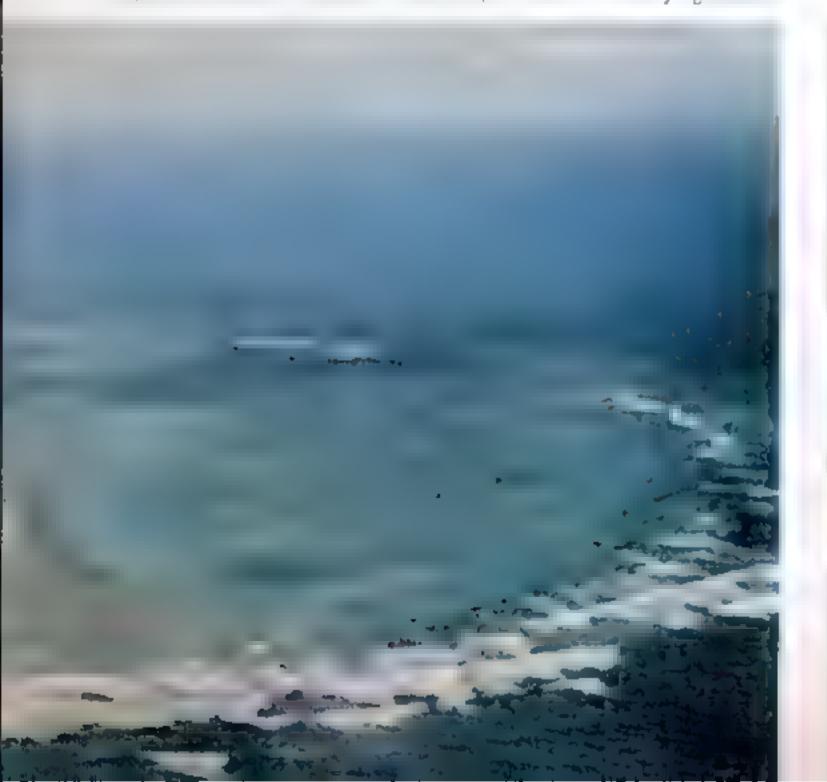
feet of water. From the windward side (foreground) surf foams over the parapet into the shallows of the central lagoon. Within the leeward are in the distance, a small island has been formed of coral sand; on it stands a lonely lighthouse.

surf beating at the outer ramports, expending its fury against the hidden coral cliffs. To leeward, within the calm waters of the inner laguon, often referred to as Austraha's grand canal, coastal vessels cruise between Brisbane and Cape York, picking their way cautiously amid the coral flats and islands that divide the inshore waters into a maze of tortuous channels navigable only to experienced sailors. In wintertime antarctic whales enter the warm, still waters of the lagoon to spawn.

At one time far in the geologic past the floor of this inland sea formed part of the Australian mainland, a flat coastal plain dotted here and there with hills and low mountains. Then, in response to the huge forces that recurrently re-form the crust of the planet, these

CONTINUED ON NEXT PAGE

FRINGING REEFS short the flanks of volcanie islands in the northern Murray Group. Here the coral has built outward from solid rock shores. If the islands should sink, their fringed reefs could form an atoll like that in picture at left,







STAGHORN CORALS are among the most prolific and most beautiful architects of the Great Barrier Reef. Their pair of derives from the artilerlose arrangement of their branches. They flourish over reet flats everywhere but if rive best in

sheltered waters. Slender I rift c as glass staglions are recurrently decimated by storm. Following typhocus masses of neuronal bias less litter the weather side of reets. Here a so you of blue damsel tish wanters and a staghorn grove.

marginal lands began to settle, leaving only the crests of the coastal hills protruding above the waters: the inshore islands visible today. The warm shallows favored the growth of coral, and slowly, at a rate of perhaps three feet per 1,000 years, the reef grew as the coastal plains and continental shelf subsided and the ocean levels rose.

In the building of the Great Barrier, however, the corals have not labored alone. Here, as in every reef, other agencies were and are continually at work. The limy skeletons of the master builders represent the main building blocks, but the framework is often loose and honeycombed with apertures which are filled with smaller units—tiny shells and other skeletal debris. Even so the structure might remain a loosely compacted mound of rubble, subject to disintegration by the pounding of waves, were it not for encrusting deposits of lime laid down by coralline algae. This mortar binds the reef together, cementing it into solid ramparts of coral rock.

By day and by night while the coral polyps are fabricating their complex houses, other forces are relentlessly at work tearing them down. Foremost among the destroyers are the ocean waves, beating on the seaward walls, driven by the Southeast Trade Winds. Recurring typhoons break up vast sections of reef, excising huge blocks of coral and tumbling them across the flats into the catch basins of the lagoon. Great havoc is also wrought by fresh water descending in torrential tropic downpours of rain, diluting the salt water in which polyps and other marine animals must live and converting the terming community of the reel into a desolate coral graveyard. Beside these inanimate forces of destruction there are plant and animal enemies sea urchins that rasp holes in the coral surface, boring mollusks and algae, and clams that wedge themselves into ever-deepening cavities. All these undermine the structure of a reef. And so, as in every domain of nature, growth and destruction, life and death are forever in conflict.

In this never-ending battle the forces of creation have been consistently victorious. Along the entire length of the Great Barrier the



A HUGE CLAM is wedged among the living corals of the reef. Largest bivalves in the world, giant clams weigh up to 500 pounds and measure four feet across. Human swimmers sometimes drown when they step into open shells and are trapped.



STAR CORAL SKELETONS mesh together like cogwheels in a part of the Great Barner Reif. Hard, unbrinched star combine among the most import at reliable bunders, below, stanling coupty, are pipelike houses built by the minimum pilets.





the Great Barrier Reef. One of the commonest of coral island trees, the pandanus is more widely known as the "breadfruit tree" because the Australian natives

pound its pineapple-shaped fruit into a kind of dough. It is also called "screw pine" because of its spirated tufts of leaves. Its stilt roots provide support in the shifting sands in which it grows. Its failer leaves chake out all offer plant life.



corals continue to build, consolidating their holdings and extending the reef area, wresting new dominions from the sea. In time it is possible that discontinuous units of the Barrier will fuse into a solid mass, for the living, tide-washed coral of today may become the coral island of tomorrow. As the skeletons of coral and other reef organisms disintegrate under the waves' attack they crumble into sand which gradually accumulates until a beach is formed. In time the sands are cemented together with shells and coral fragments and harden into coral rock. The next phase is the addition of vegetation, which may be brought by bird droppings or driftwood containing the seeds of grass, shrubs or trees. Coconuts floating with the currents and the seedlings of mangrove trees travel over many a sea mile and wash ashore, still viable, and propagate their kind. When the seeds germinate and put down roots in the sand, it may remain only a matter of time until the former bleak and tide-drowned reef becomes one of the romantic "Summer isles of Eden lying in dark-purple spheres of sea."

Lovely as they loom from a distance, with their plumed crests and white encircling necklaces of surf and sand, coral islands do not invariably present in close proximity the aspect of enchanted gardens. For their vegetation is often unruly, consisting in part of unkempt mangrove swamps with weird, strangled trees wading in a sodden coze of mud (below), and in drier sections of a tangled and nearly impenetrable jungle of pandanus trees (left), often interspersed with coconut palms, banyans, Tournefortia and papaw trees, ferns and ironwood. Since mangroves thrive only in salty, boggy terrain, they are seldom found on the windswept side of reefs but rather in the lee where drainage produces an accumulation of mud. Here their spreading roots tend to collect debris and sediment which in time consolidate a higher soil base suitable for other vegetation but, paradoxically, fatal to the tree that created it.

The most notable tenants of the Barrier Reef isles are birds. In certain months of the year incomputable multitudes of aquatic fowl dramatically appear out of the blue lonely wastes of the sea and converge on the Barrier islands to mate, build their nests and rear their young. Sometimes from a ship at sea one of these islands appears to be overhung by a black and menacing cloud. On closer approach the cloud resolves into galaxies of soaring, wheeling birds—noddy terns



A MANGROVE TREE rises from swampy waters of a Barrier Reef atoll. Growing in mud, the mangrove anchors itself on a tangled base of stilt roots rising high above the water and intertwined with aerial roots sent down from the branches.



spiny sea urchins thrive among the mangroveroots. Their movable spines protect them from predators. The round object in center is a brain coral.



URCHIN FISH luck for protection among the sea urchin's upright spines, maintaining their vertical position by swift movements of their delicate fins.



NODDY TERMS congregate in vast mur bers in the pisonia trees of the Barrier isles. Their nests are religi structures of leaves, seawed and grass, comented toget or will excrement. As many as 14 nests have been counted in a single tree.



A GREEN TURTLE digs a hole in the sand in preparation for egg averge birst itsing all four flippers, she digs outdiller's all is his with the surface of the health. Then with her rear flippers she excavates a deeper tick under sor ovipositor.

(left), sooty terns (below), boobies and mutton birds, or shearwaters. For most of the year these vast hosts of birds range the South Seas. But in season some urgent instituct summons them back to the Great Barrier Reef. One island, scarcely three miles in circumference, has a seasonal bird population of mere than a million. During the breeding season the birds appear never to sleep. By day they fly out over the waters in quest of food. By night they make love, fight and feed their young, accompanying their domestic activities with a wild cacophony of certe staticks and screeches, granns and moans that in the days of sailing ships gave rise to a legend that the islands were haunted by condemned souls in torment. Heron Island, in the Capricorn Group, a favorite of the mutton birds, is honey ombot with their burrows. Michaelmas Cay, near Trinity Passage, a roost of the sooty terns, is drenched with their droppings and the sky above is continually obscured by their swift, dark echelons

The birds share their coral dominion with two other prolific popu-



SOOTY TERMS promenade the heach at Michaelmas Cay, a favorite breeding spot of aquatic birds. The entire island is one vast roost, teeming with terms, clut tered with nests, pervaded by the aerid odor of their innumerable droppings. Most

active of the many species of birds that inhabit the islands of the Great Barrier Reef, the sooty term is also known as the wide-awake, for it is on the wing almost all day, searching the sea for small fish and sipad, and during the breeding season



TURTLE EGGS emerge rapidly until 100 or more each about the size if a pingpong ball, have been laid. The mother turtle then covers them with sand. In a few weeks the young hirtles batch, head straight for the water and swim out to sea,

lations: the soldier crabs and the giant green turtles. When the tide ebbs at night the beaches come alive with ranks of tiny crabs out for food, swaying and turning like an army in maneuvers, then scattering to dig small burrows at the first gleam of dawn when their implacable enemies, the birds, take to wing. It is at night too that the giant green turtle comes ashore to spawn. Plodding up the beach in an undeviating line, struggling awkwardly over coral boulders instead of circling around them, the mother turtle climbs above the high-tide mark, digsa hole and lays her eggs (above). Then, covering them firmly and abundoning them, she returns to the water, leaving her unmistakable footprints in the sands (see cover picture). A few weeks later when the baby furtles batch, they find themselves cast into a world of infinite peril. As they make their way instinctively down the open strand, the shadow of dark wings falls across them, and the rapacious claws and murderous beaks of the larger birds pluck them helpless from the earth, rending their tender shells. Those that escape this first serial attack and reach the sanctuary of the surf are still not secure, for hungry fish he waiting for them in the insatiable sea.

CONTINUED ON NEXT PAGE



return from their daily hunting trip at sea. At this age the young tern wears speek led brown and white plumage. The adult has black on its back, white on its fielly.



seems to be up all night, mating, fighting, scooping shallow nests in the sand or caring for its vociferous voing. What little rest it gets probably consists of brief naps while perched on flotsam or strips of sand. Terms are monogamous, each male having but a single mate which during the breeding season lava but a single egg. However, so numerous are the eggs of the assembled sooty terms that the beaches of Michaelmas Cav are virtually covered with their white glearing shells.



A CORAL RIDGE edges the outer compart at Bikini atoll where the reef disappears beneath the white surf and falls away into the depths. The seaward margin is coated with encrustations of purplish algae that protect the coral from the

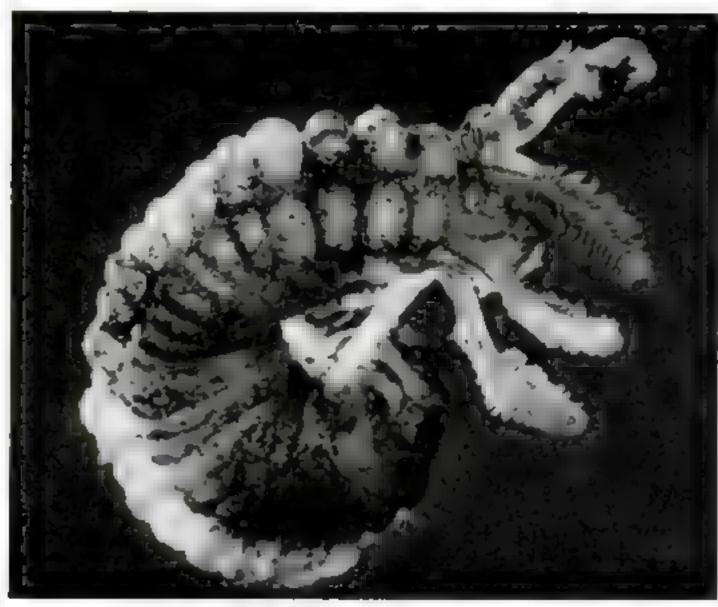
waves. Its edge (right) is deeply grooved with surge channels, formed by irregular growth of the coral and sculptured by wave-crosion. Underwater the reef shelves into terraces, then drops steeply and finally slopes to the deep floor.

THE TEEMING UNDERWATER WORLD OF REEFS

THE preceding pages have described the structure, vegetation and animal populations of Australia's Great Barrier Reef. Beneath the surface of the water there lies another, far stranger, more exciting domain, and it is in this submarine realm that all the coral reefs of the world become as one. For although the Great Barrier Reef is the largest and most splendid of all the world's coral structures, its great size and unusual situation render it unique rather than typical. The other reefs of the sea are not only smaller but scattered, associated more with islands and the open sea. They rarely appear along the western coasts of continents, possibly because wind systems and currents combine there to produce upwellings of deep, cold water.

Wherever in the world they exist, however, all coral reefs reveal

certain basic structures in common. And whatever type they may represent—atolla, barrier reefs or fringing reefs—their tide-exposed flats resemble crumbly fields of multicolored stones, mirrored in small pools in which many forms of vertebrate and invertebrate life abound. At the seaward edges of the flats broad algal ridges stand above the water (above), wrought by the pink algae that cover the underlying coral with a veneerlike glaze. Serrating the ridges of many reefs are innumerable surge channels through which the waves course and drain. At the outer edges of the ridges the coral cliffs drop away in slopes sometimes steeper than those found in most mountains of the land. It is at the dizzying brink of these enormous ramparts that the fantastic blue underwater realm of the reef begins (opposite page).



AN ANCHOR WORM uncoils in the shallows of a coral flat. Amazingly contractile, anchor worms can curl themselves up into small blobs or stretch into slender tubes several feet long. They dwell among rotting coral and empty shells.



A MARINE SNAIL glides along the bottom of a tidal pool. It propels itself by means of a broad, muscular foot and takes in water through its trunklike syphon. To eat it scrapes up food with a rasplike tongue at the tip of a proboscis.



THE SUBMARINE FORESTS of a coral reef luxuriate in clear blue light that fixers down from the surface layers. Here, 25 feet down in Bahamian waters, coral trees and coral shrubs, coral spires and coral boulders luoin on every sale,

and every type abounds: deheate, stone-hard staghorn corals branched ake candelabra (right center), flexible sea whips and seafans (center), round, corrugated brain corals (upper left), and encrusting cabbagelike Pointes (center foreground)

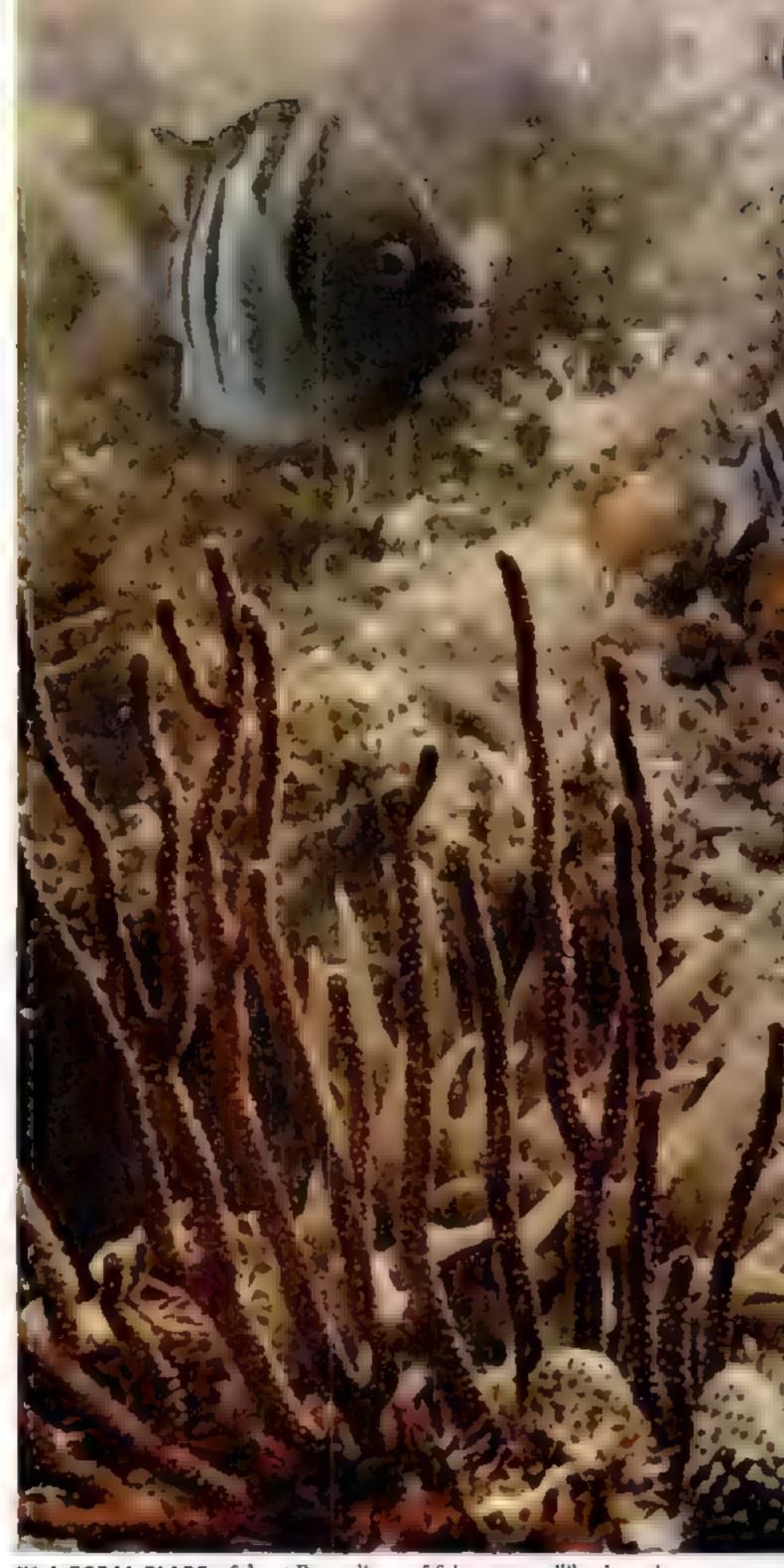


KING CORAL, an Alcynnarian form, spreads its delicate branches above a school of butterfly fish in shoal waters of New Caledonia. The red coral of the jewel trade is a deep-water Mediterranean variety distantly related to this species.



STAGHORNS strain upward toward the surface off Nassau. At their base (left to right) are sea whips, an Aleyonarian type of coral; a trumpet fish, awimming vertically, and a sea lan. Below are chimney sponges of Harrington Sound, Bermuda.



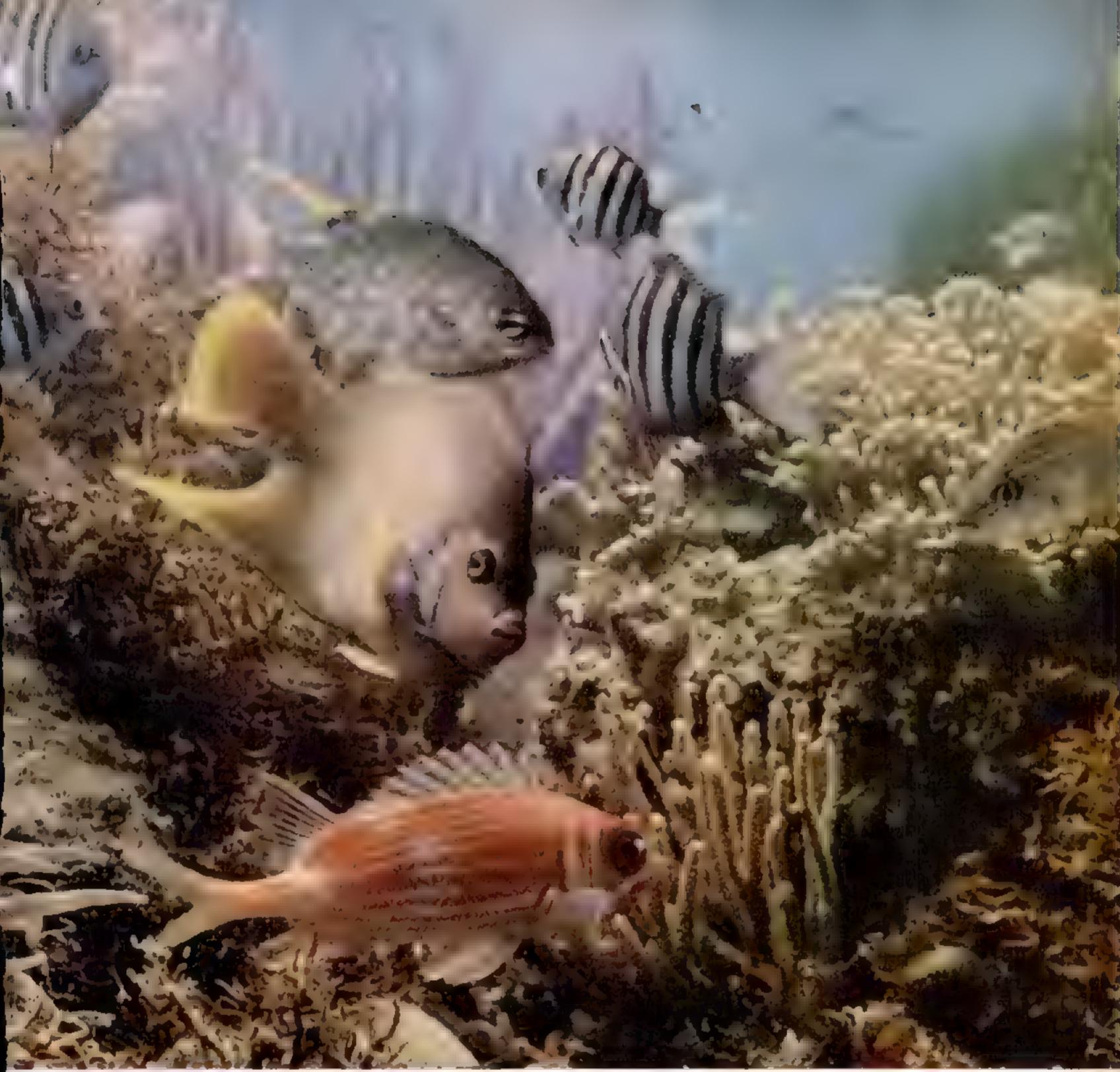


IN A CORAL GLADE refulgent Bermudian reef fish poise jewellike above the exone shrubs and blossoms of the shallow floor. At left a clump of purple sea rods point crooked fingers at the sun, partially screening the waving tentacles of an

ARTISANS OF THE REEF

bear many varieties of blooms, charmed frozen flowers of every shape and hue. Exquisite branching trees and shrubs, tapered spires and stems, fans and fronds sprout from the tide-bathed beds and borders of the sunlit flats and cling to the ledges of the seaward cliffs as alpine blossoms cling to the rock gardens of the land, staining the blue waters with their pure and profuse colors.

But in addition to flowerlike forms, many other structures diversify the underwater world of coral. There are corals that look like toadstools and corals that resemble the cortex of a human brain, corals that grow in tiers like apartment houses and hang in folds like draperies, corals that form caves and grottoes, and corals that sprawl in



anemone. In the right foreground a purk squarred fish so called because it chat tres love a squarrea in vales a classic of Alexanderic coral which an angel tish hovers overhead. Behind the angel fish is a spetted chubilly the background

strange, convoluted masses, lobed and puckered like fungus growths.

a squad of sergeant-majors deploy in loose formation. At the extreme right is a blue striped ground with a pets its name because it grants. Contrary to popular bettef, thank fish and invertibilities right moises, the sea is not a silent process.

Only an expert can identify the hundreds of different species that abide in reefs, for their aspect often varies with circumstance. But in general the domainant reef-building corals, which usually have six smooth tentacles (or multiples of six), separate into two main eategories: the delicate branching forms represented by the staghorn corals; and the solid, unbranched sturdier types such as the meandrine or yellow-green "brain" corals, the gray or bluish Comopora and the vellow-brown Porites, Among these the transle staghorn corals are incomparably the most beautiful. The tougher brain corals and Conjopora are usually round and boulderlike; Porites often assume the shape of domes or basins. Less important, but nevertheless com-

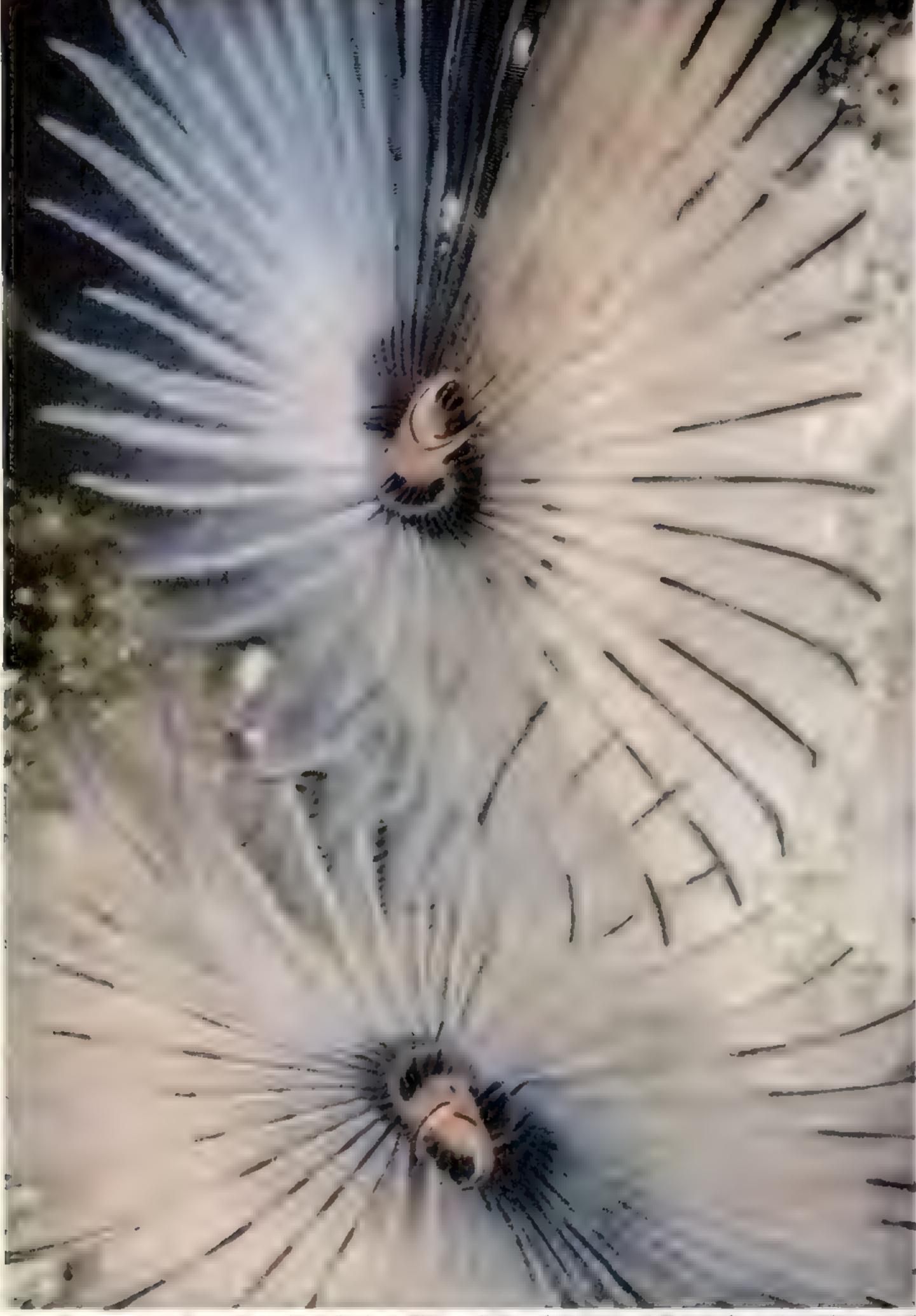
mon on most coral reets are, the mushroom coral, a solitary polyp-

about the size of a dinner plate; Millepore corals, which form yel-

low bladelike encrustations on the surface of reels; soft Alevonarian

corals which have eight fringed tentacles and with a few exceptions do not armor themselves in limy skeletons; and the so-called horny Alevonarian corals which include the types commonly known as sea whips, sea rods and sea fans

Among the permanent inhabitants of a coral reef are certain other fixed or sessile creatures such as burrowing mollusks, bryozoans (minute colonial sacklike animals with tentacles, superficially resembling corals in the shrubbke form they assume), tunicates and sponges (below, left). Yet these are essentially tenants, not proprietors. The corals alone are the hosts, for they are the craftsmen that actually create the crenellated castles of the sea and embellish them with mame palettes. It is one of the deep paradoxes of nature that creatures so small and all but insensate, so lowly in the evolutionary scale, could be such supreme artists and sculptors, jewelsmiths whose "Rich and various gems inlay The unadorned bosom of the Deep.



PEACOCK WORMS, a viriety of the sorm extend their glistal mathe. Their hodins are busied in limit or subspicial decides when they have a advantage to coral or sinus or hother teachs protrude their all hother half in respirators.

for their and serve to convey food particles down to their cawhike follers as I mout the rigiling movements of the fine ties or leathers led a reach a Worn alarmed ties cost their like the parases and remains in the fitters.



A POTPOURRI OF REEF LIFE gleams amid the warm, clear waters of Bermula. Though flowerlike in appearance, all the objects shown here are animals save for the green rockweed at top. The redbeard sponge (upper left), the speckled sea

pork (center) and the pale green corals (left) are sedentary creatures. But around them a number of wandering reef visitors slowly crawl: a pair of scarlet starfish, two pink anemones (right) and a slate-grey spiny sea urchin (lower right corner).

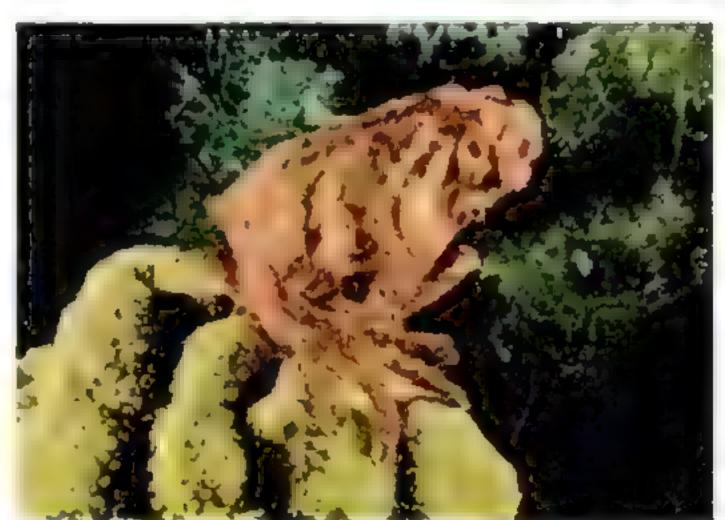
THE INVERTEBRATE VISITORS

Of all the enclaves of life in the sea, none is more populous per cubic foot, none more prolific, than the waters of a coral reef. Here nature creates with an exuberance manifested in no other precinct of the living world. And here, in particular, among the bright stone cities of the corals, the humble orders of invertebrates have come into their own, flourishing in these benign waters and producing giants of their kind—starfish a foot in diameter, anemones two feet across, seven-pound oysters and clams that weigh a quarter of a ton.

It is not only in numbers and dimension, however, that the invertebrates of a coral reef transcend others of their kind, but even more notably in the brilliance of their investiture. Species which elsewhere hide in drab and inconspicuous attire flaunt gorgeous raiment on the coral causeways of the reefs—enamelled, bright-striped cone shells and purple sea slugs with rippling gills. Starfish shine in sapphire and scarlet. The carapaces of tiny shrimps glow with many iridescent hues. Painted lobsters promenade in purple and green, orange and black, with spots on their backs and stripes down their legs. But of all the invertebrate dandies of the coral reef, none perhaps is handsomer, none more elegant than the shy and dainty tubeworm (opposite page).



A GIANT BLUE STARFISH basks on a coral flat. Common to Pacific reefs, the blue starfish ranges from 8 to 12 inches across. In feeding, a starfish extrudes its stomach through its mouth, envelops its prey and digests it outside its own body.



A DECORATOR CRAB makes use of a reef growth to camouflage itself -a piece of fire sponge, which it holds on with a pair of turned-up legs. Other decorator crabs grow plants on their backs, pruning them when they become too dense.



A TRUNKFISH moves stiffly past a coral tree. Unlike other fish which swim with undulating movements of their bodies, trunkfish have rigid torsos. Lacking flexibility, they propel themselves with rapid movements of their delicate fins and tail.

THE VERTEBRATE VISITORS

BECAUSE of the profusion of life with which they abound, coral reefs have been called "oases in an aquatic desert." Around them stretch the sparse waters of the open ocean. But the lagoons and shallows, tidal pools and grottoes of a reef swarm not only with invertebrate life but with myriads of darting fish more varied than any in the sea. While in actual tonnage the reef populations are exceeded by those of the continental shelves, the warm tropic waters that embrace them engender a multiplicity of rare and exotic species.

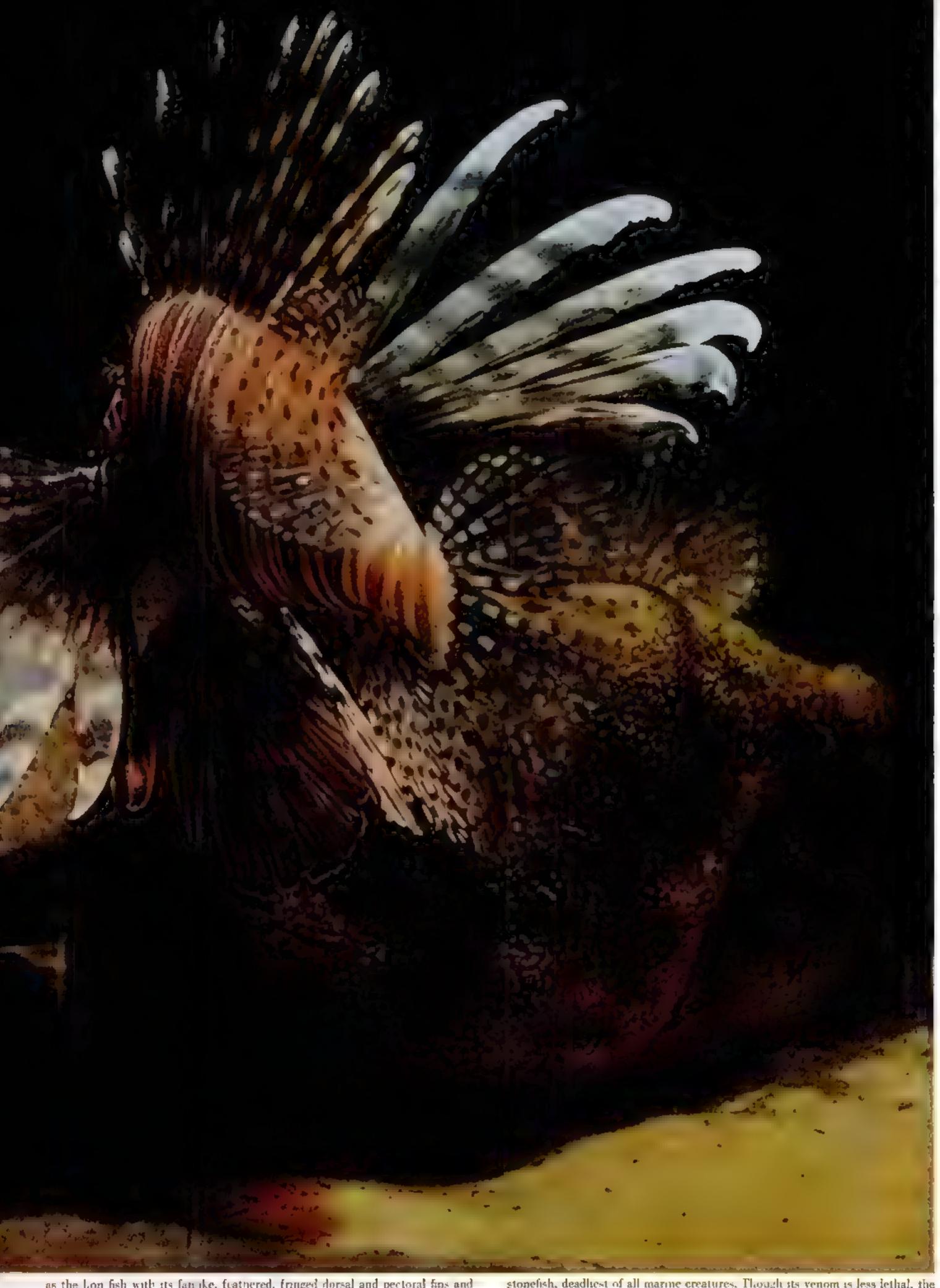
Since the clear reef waters contain little plankton, however, they do not sustain the vast hordes of big edible fish that thrive in colder, nutrient-rich areas of the sea. The four main fish families of the reefs—butterflies, damsels, surgeons and wrasse—are able to subsist as vegetarians when living prey grows scarce. Another sizable family—the parrot fish—actually crunch and swallow coral rock in quest of the algal growths on which they subsist. One species of filefish grazes on the coral polyps. Other fish eat crustaceans and mollusks. Save for the ever-present predators—groupers, amberjacks and barracudas—most reef fish tend to be small and delicate. But like the invertebrates with which they share the coral world they are splendidly arrayed.



A GREEN PARROT FISH is unique among reef dwellers in that it is able to cat and digest the hard encrustations of coral algae. For this purpose it is equipped with a horny beak and four molars, set deep in its throat, that act as a granding mill.

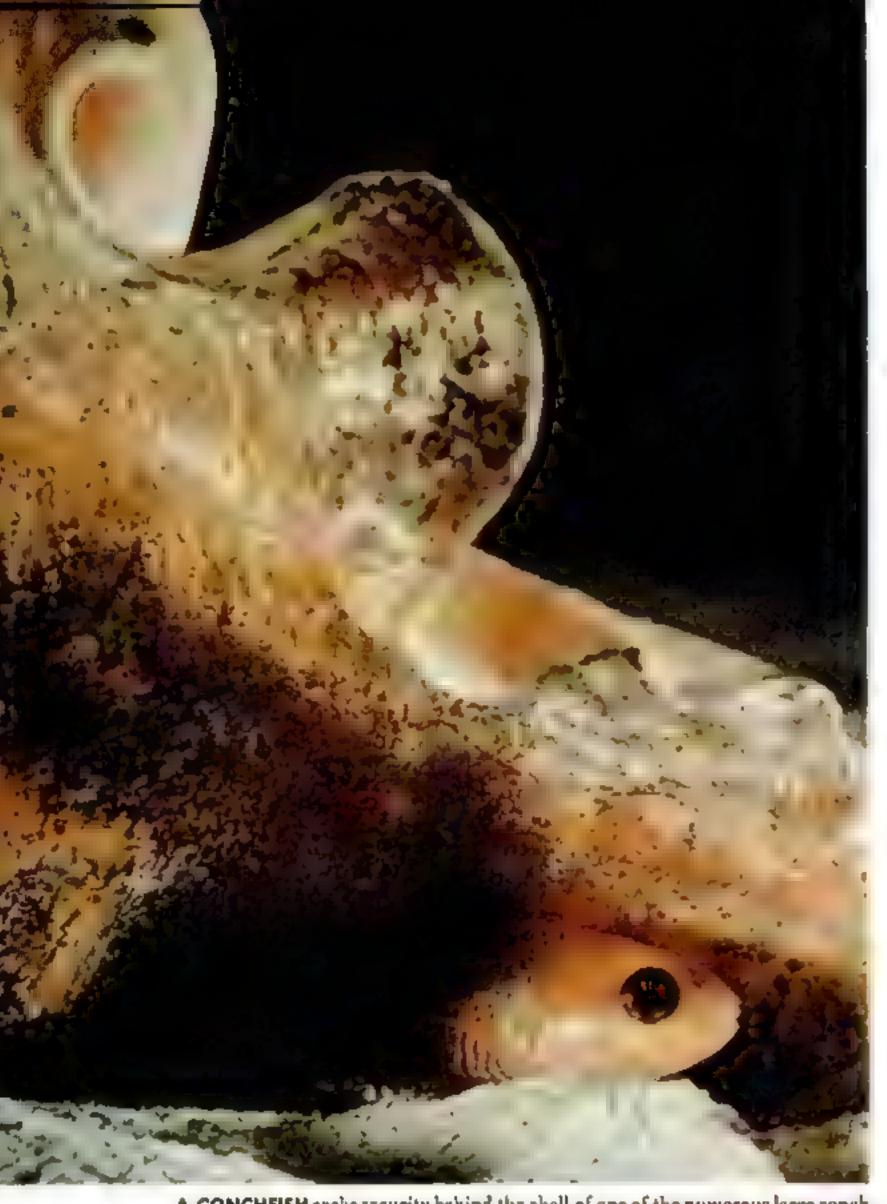


A LION FISH, most rococo of reef dwellers, flutters lazily past a coral rock like some winged ungrant from the flower gardens of the dry land. While other fish wear brighter colors, none is bedizened with such a frippery of frills and furbelows.



as the lon fish with its fan ike, feathered, fringed dorsal and pectoral fins and dappled tail. For all its giresh splen for, the linn fish is among the most dangerous of the coral reef's inhabitants. It is a cousin of the poisonous Pacific.

stonefish, deadlest of all marme creatures. Though its venom is less lethal, the hon fish can nevertheless inflict a painful wound on any creature that comes in contact with the sharp, virulent, erectile spines that ridge its handsome back.



A CONCHEISH seeks security behind the shell of one of the numerous large conch mollusks that thrive on caral reefs. Among the most timorous of reef fish, it has pinxish, indescent scales that blend perfectly with the inner lip of the conch.

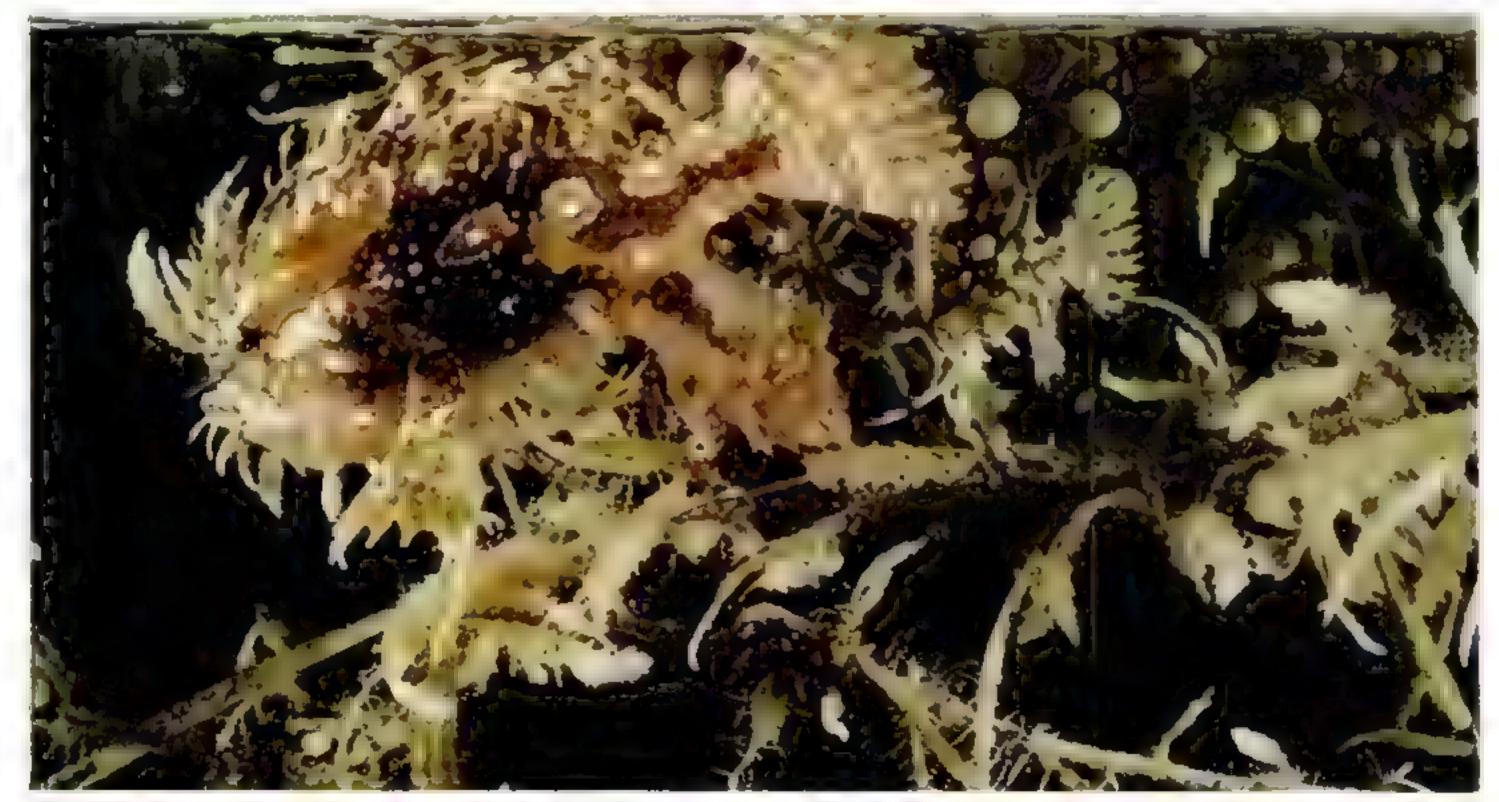


A FROG FISH, camouflaged as an algae-covered coral rock, lies in wait for prey. From its head dangles a movable rod tipped with a fleshy tassel or lure. When smaller fish approach to investigate they vanish in the angler's cavernous jaws.

FISH: FROG, CONCH AND SARGASSUM

FROM the standpoint of marine biology, a coral reef exists as a distinct domain of life, unique in its environment and populations, and differentiated from such other realms as the pelagic and benthic regions of the sea. Yet like all great divisions of the natural world, a coral reef too has its multifarious subdivisions, its small subsidiary provinces of sand and coral rock, deep and shallow water, each with its own habitual and proprietary incumbents.

Thus there are reef fish that choose to live in the lagoons and reef fish that prefer the open waters beyond the seaward walls. The silver-side Atherion plays in the surf zone of the surge channels. The dwarf sea bass Pseudochromis lurks in the algae-covered edges of the coral cliffs. Blennies, gobies and snake eels haunt the coral flats, burrowing into loose sand and gravel and hiding there when the tide is out.



THE SARGASSUM FISH, one of the most voracious carnivores in the sea, is virtually indistinguishable from the floating seaweeds that drift in the Sargasso Sea and the reef waters of the Cambbean. From nose to tail it is embroidered and

upholstered with golden-brown tassels, knobs and striated ribbons that simulate the foliage and flotation bladders of the Sargassum weeds to which it clings with handlike fins and among whose tangled stalks it hunts its living prey.



A SCORPION FISH sprawls motionless on the bottom, resting on its winglike fins, waiting for one of the little sardines above it to blunder within range of its cavern its mouth. Its body is embossed and brocaded with a fibgree of fleshy

protuberances that serve to camouflage it as a seaweed bearded coral stone. But these daughing pendants, tufts and taiting serve a double purpose for they are also sensory organs that notify the scorpion fish of the approach of prey or encours.



BARRACUDA is capable of attacking anything that moves in the water. Ranging up to eight feet in length, it is swifter and craftier than any shark.



57ING RAY carries on its tail a venomous spike capable of causing paralysis or death. It uses thus lethal weapon only to defend itself when attacked.



GROUPER is dangerous only because of its size and carnivorous appetite. Some species attain a weight of 600 pounds and could engulf a boy in one bite.

The specialization of reef fish for particular habitats attains its apogee with those that exist in close relationships with other creatures, as, for example, the urchin fish which lives among the spines of the sea urchin (p. 81), the damsel fish which hides among the tentacles

of the sea anemone, and the tiny pearl fish, Carapus, which actually makes its home inside the body cavities of sea cucumbers.

Many reef fish have evolved unique physical features in adapting to their chosen ways of life. Thus a species of mullet which feeds in shoal waters has developed fleshy, fringed lips which serve to keep sand out of its mouth. The needlefish and certain other fish which hunt near the surface of the water have ridges over their eyes to shade them from the glaring tropic sun. The flounders, which lie on their sides on sandy bottoms, are perfeetly designed for their individual habitats; the mouth is situated on one side and, even more remarkable, one eye migrates in early life from the downward side to join the other on the upward side.

In the diversified and multicolored world of the coral reef the art of camouflage is more highly

developed than in any other domain of nature. Scorpion, Sargassum and frog fishes (preceding pages) blend perfectly with their baroque surroundings. Hogfish and groupers change color as they glide past variegated backgrounds. Butterfly fish wear eye-shaped patterns on their tails, possibly to confuse their attackers.

Some reef creatures are further equipped with poison and various kinds of implements with which to inject it into their foes. Among these are certain sea urchins and reef starfish, the stung ray (above, center) and the scorpion and hon fish whose poisonous spines cause temporary paralysis. Deadliest of all reef creatures, however, is the

stonefish. Upon its slimy, warty back stand 13 erectile spines, each needle-sharp and fed by two venom glands containing a nerve poison for which there is no known antidote.

These virulent fish present the principal perils of coral reefs to man. Yet all are passive. The only other dangerous reef creatures are the active predators that steal in from the open waters to hunt

> amid the populous communities of the coral world—the shark, the barracuda and an occasional giant grouper-familiar villains of the sea, Ichthyologists and other explorers of reef life do not agree, however, on the degree of aggressiveness of these carnivorous fish. All have been known to attack man and to cause injury or death. Yet some naturalists insist that many such attacks are due to failure of identificationthat a diver or swimmer is safe as long as he remains underwater where the fish can see him, and risks attack only when he comes to the surface and splashes about like a school of frightened herring. Most authorities agree that unless stimulated by blood in the water sharks are relatively cautious; a swimmer can scare them away by advancing toward them and making a noise, Barracudas, however, are utterly savage and without fear. They attack with bulletlike velocity. Their mon-

strous mouths and knifelike teeth can slash an arm or leg to the bone. They are generally the fiercest and most fearsome pirates of the sea.

For the sea contains, insofar as modern man has been able to ascertain, no horned serpents or monsters of ancient myth. Apart from these hungrily predactious hunters and certain poisonous but completely unaggressive creatures the underwater cosmos of the coral reef contains few hazards. Year by year, as naturalists and amateur divers explore its skeleton stone cities, new wonders, new beauties are disclosed, evoking ever afresh the poet's words, "In chambers deep, Where waters sleep, What unknown treasures pave the floor!"

A NOTE OF ACKNOWLEDGMENT

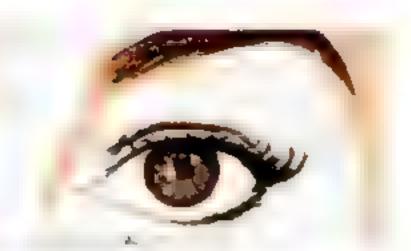
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NEXT: THE DESERT

Part IX of "The World We Live In" turns from the populous realm of the coral reef to its earthly antithesis, the louely, sun-scorched reaches of the desert. Twelve pages of color photographs, taken in the American Southwest, define the harsh splendor of the desert's stark countenance, its extreme and violent climate, its rare rainfall and the intricate adjustment of its native creatures to a nearly waterless existence. Two three-page paintings, done especially for LIFE by Artist James Perry Wilson of the American Museum of Natural History, show how desert animals live during the blazing heat of the day, quiet and unseen in shadowy hideaways; and how they stalk their prey in the chill, star-studded night.

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THE MAKING OF A SKI CHAMPION

A Japanese boy starts early and grows up to be best slalom racer in U.S.

Chinaru Igaya began to ski at the impressionable age of 3 in Japan's Kurile Islands. His father, an ardent but impoverished skier, strapped him into a pair of skis and started him down a slope. Not having the slightest idea how to stop, Chiharu began to cry. Then he fell down. A year later, when the revealing photograph above was snapped, he had progressed sufficiently to make snowplows and rudimentary controlled turns and even to run among trees without mishap. At 10, too young to compete officially but serving as a forerunner before the race, he slithered down a slalom course six seconds faster than the winner, who was the Japanese ski champion. Today at 22, Igaya is a freshman at Dartmouth, the U.S. slalom champion and the first Japanese skier to gain world recognition.

His dogged rise to the top is documented on this and following pages by family album pictures taken by his father. Because school interfered with skiing, Cluharu often skipped the winter terms. "In Japan we have proverb," he explains. "Man who chase two rabbits catch none." An American ski enthusiast became Igaya's patron, sent him to the 1952 Olympics (where he finished 11th in the slalom) and is now putting him through Dartmouth. So far this year Igaya, who has been nicknamed Chick, has been studying so hard to overcome the language barrier that he has had little time for skiing. But two weeks ago, with almost no training, he entered a slalom race at Stowe, Vt. and, dodging in and out seemingly without effort and without checking speed, won like a champion.

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HIS KNEES ALMOST TOUCH SKIS AS HE EXECUTES A SUPPLE CHRISTY



WITH EXTREME REVERSE SHOULDER SWING, IGAYA DIVES INTO A TURN



IGAYA'S FAVORITE PICTURE SHOWS HIM DOING A RUADE, OR HEEL FLIP

PROGRESS ON SCHUSS AND TURN



MAKING TRICKY JUMP TURN, IGAYA HANGS IN AIR ABOVE THE SNOW





PRACTICING JUMPS FOR DOWNHILL RUN, HE SAILS LIGHTLY THROUGH AIR



USING STANDARD RACING CROUCH, HE WINS ALL-JAPAN DOWNHILL RACE

CONTINUED ON NEXT PAGE



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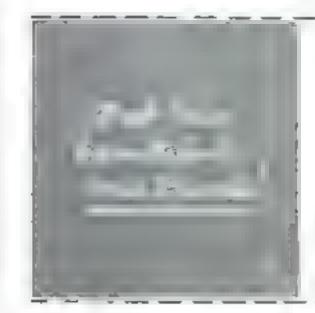
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Ski Champion CONTINUED

THE YEARS OF LABOR PAY OFF



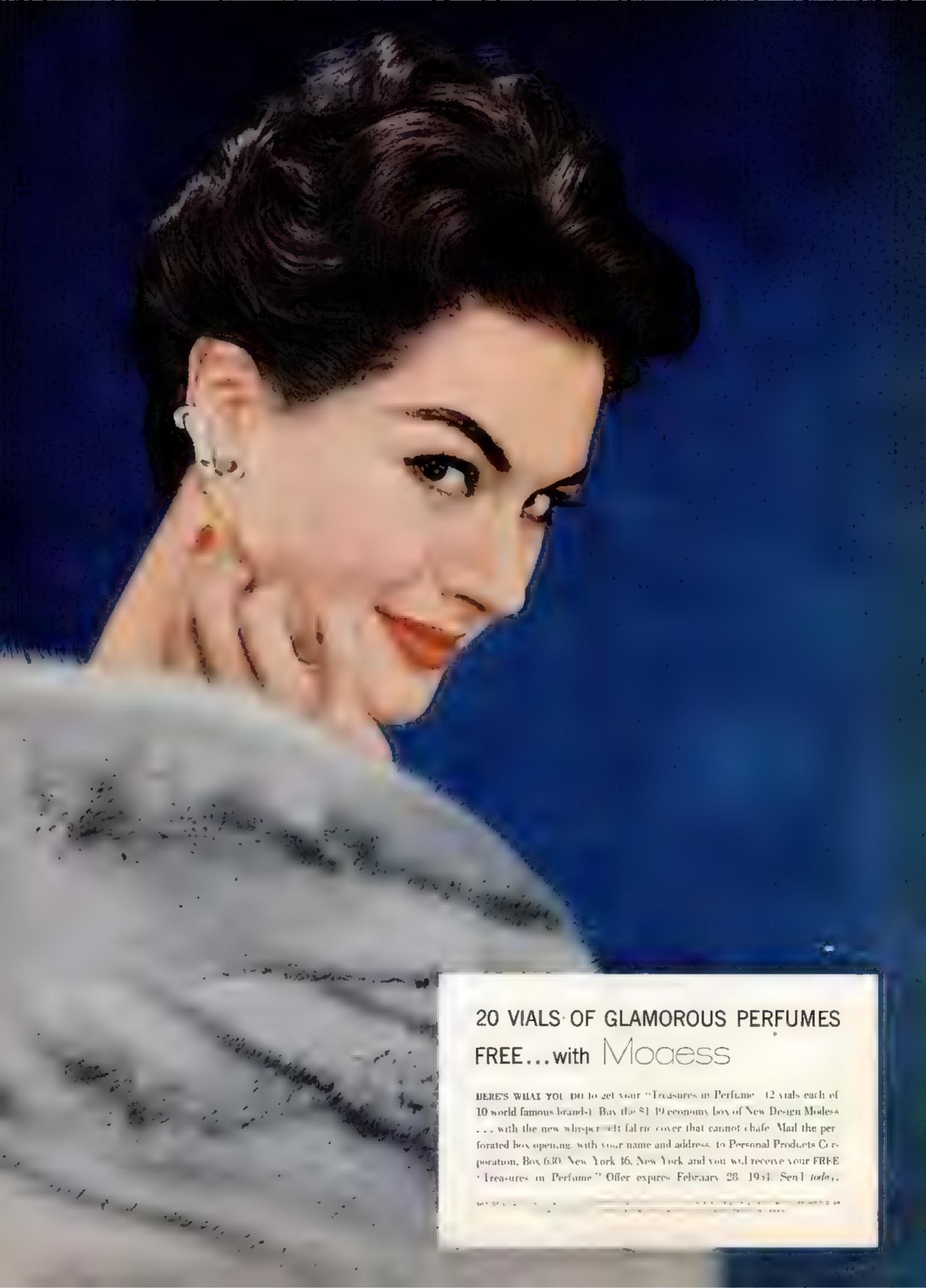
th norway bring 952 Ole procomment, large consents to the form a mobile for the first taken to be successful as each of the first taken to be successful.



10 the a gate life want is a post crep, selt Japan in 1 1956 than a set



AT DARTMOUTH Igava labors in library surrounded by history books and Japanese-American Letionaries. Studies have say thank off skis most of winter.









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DANIEL KAYE, DONALD RAY AT HOME

On Dec. 12 when Mrs. Cecil Hartley of Petersburg, Ind. gave birth to a two-headed baby, doctors marveled. In medical history only a few such children have survived the first weeks of life. But by last week the child was almost two months old, healthy and living at home.

Physiologically the child is really twinsand although registered with only one birth certificate is actually two persons. They are the result of an extreme case of Stamese twinning. Two heads and four arms emanate from one body but an X-ray (right) showed that the body held two spines united to a single pelvis. Further examination revealed two hearts, lungs and stomachs, which seemed to have a common intestinal tract. Below the waist there was one body with two legs. The Hartlevs named the twins Daniel Kaye and Donald Ray.

Because the brothers have so many things in common, a scientific study of them as they grow would help unravel many medical mysteries. Some doctors believe hunger comes as augar decreases in the blood. Since it is likely that they have a linked blood supply the children should grow hungry at the same time. Actually their appetites vary. Because the boys are identical twins with the same body, personality differences will result mainly from their individual experience—reacting to parent-' care, wanting to do different things. A study of these differences could help define the role of experience alone in developing personality.

Before the twins the Hartleys were nearly destitute. Now people have showered them with money and gifts and Cecd Hartley has an offer of \$1,000 a week to exhibit the babies. He may consider it when the boys are older.



TWINS' FIRST X-RAY, taken immediately after their birth, shows separate spinal columns joining

with a common pelvis. Above the pelvis is their intestine. The twins' chests are completely joined.





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Daniel and Donald CONTINUED



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CONTINUED ON PAGE 101

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No matter who you are ... or where you are ... there's no need today to suffer when acid indigestion strikes. Just remember—gas, heartburn, sour stomach, and the full feeling due to excess acid, are quickly, almost instantly, relieved when you neutralize excess stomach acids with wonderful little TUMS.

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Man-sighs Pizza Pie Lightly brown 1/2 cup chopped anions in 2 talsp. oil or butter. Add 1 small green papper, chopped; 1/2 lb. hamburger or 1 cup leftover meat, dash of solt. "Scramble" together until meat is done. Spread aver prepared Appian Way Pizza Ple dough . . . sprinkle with 1/1 cup grated sharp cheese . . . pour Appian Way Pizza Sauce over all. Bake 400°, 20 minutes.

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Daniel and Donald CONTINUED



pair of legs, the right one control I by Danny and the left one by Park



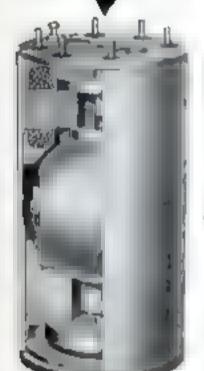
weighting TWINS on a scale borcowed by documber, and the session which registers 1 pour ls. At farth the twans west of 10 pounds, 7 ordiers,



FAMILY DOCTOR, Joseph Elbert, examines the ballies as a stera Conne. Sue and Mary Lou look on. Twins also have third sister named Shirley Anne.

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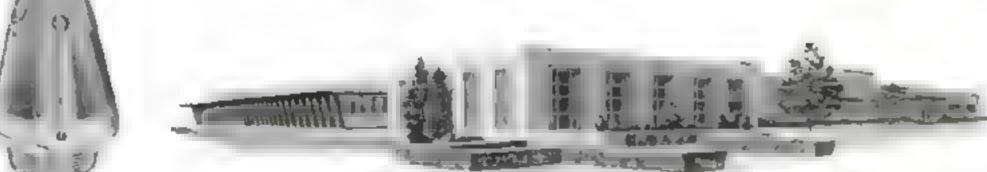
These fuses made to detonate certain shells must be strong enough to be fired from cannon, must have extreme procision—1/2 second off can mean 1/4 mile mass of target

Think of it! An hour coast to coast by guided missile. This afternoon's New York mail in Los Angeles this morning. Fantastic, but quite possible. Guided missiles are already in operation — their speed, range and other developments are secret — but work on them advances every day.

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Time, world's largest manufacturer of wrist watches, are also known for their durability and accuracy. Whether to tell time or guide a missile, U. S. Time precision instruments are made with highest accuracy and strength.







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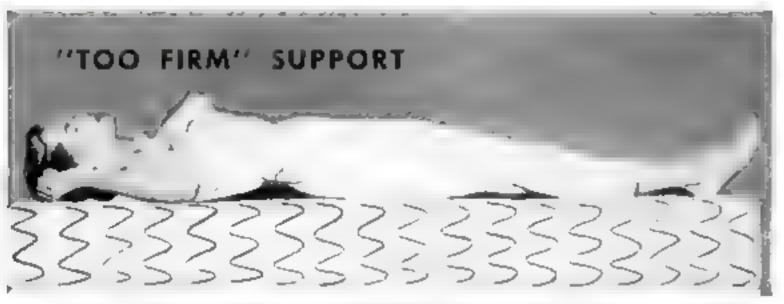
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*Stays waterproof and dustproof as long as crystal, crown and back are intact and, if removed, expertly replaced.

It's your back. It's your money. And here's how *Simmons* helps save both!

1 WHEN YOUR DOCTOR SAYS, "get a firm mattress," it's easier said than done. For firmness alone is not enough. Restful sleep is not only a matter of firm support, it's a matter of relaxing, too! Simmons, the world's foremost authority on sleep and sleep equipment, has your answer in a mattress that combines the best of firmness with the best of comfort, the new Extra-Firm model Beautyrest.* See the difference in the pictures that follow.





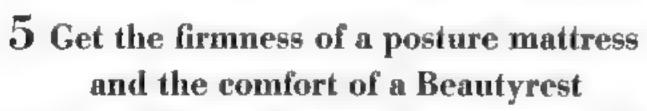
2 AN "ORDINARY" MATTRESS has tied-wire type construction. If it is too firm, it doesn't conform to your body. (If you lie down on the floor, you'll see why.) Your hips get unyielding support. Your back may not get enough. A too-rigid mattress can fail to give relaxing comfort.



3 IN EXTRA-FIRM MODEL BEAUTYREST, Simmons provides a different kind of construction, of 837 independent coils. Each spring is separate—sturdier than even in regular Beautyrest. Extra-Firm Beautyrest resists for posture-right support . . . yields just enough for comfort!



4 HERE IS THE NEW Mobile, Alabama, Infirmary. It is the newest and the most modern of hospitals—equipped with the very latest and finest in scientific medical equipment. And, of course, every one of the 360 beds in this new hospital has a Beautyrest mattress!



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Extra-firm model Beautyrest...at no extra cost!



AT THREE MONPRS MIGREY ATOM FITS INTO TEALLY WITH ROOM TO SPARE BECAUSE TWO INCHES OF RIM IS HARR

Rare Cupful

WHITE PEKE, MOSTLY FLUFF, WEIGHS 24 OUNCES

At her home in Surrey, England, Mrs. Jean Waring has a boxer dog, two Siamese cats, a peacock, a cageful of finches, 30 brown Pekingese dogs and The Mighty Atom of Roke, one of the rarest dogs in the world. The Atom is a white Pekingese miniature. Normally a breeder trying for such tiny miniature

Pekes may hope for only one out of 50 pups. The odds against a white Pekingese are even greater. It took years of breeding before this one finally appeared. He weighed four ounces at birth, but at three months, by eating three meals a day, enriched with herbs and yeast, he had his weight up to 24 ounces.



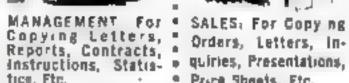
MEETING PEEKEY the peacock in the garden, Mighty Atom backs away but Peekey seems just as bewildered.



GUARDED BY BONZO, a big, affectionate, 9-year-old boxer, Atom curls up in his basket for afternoon nap.

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Without counting a calorie or doing a push-up, you can have a figure perfected, practically reborn for the new generation of slim fashions.

By starting with the one foundation that's all things to all women! Today's corselette—or rather, an artful young bra, waist-smoother, a hip-trimming girdle, all flowing together so smoothly there's no distraction from the slenderest line.

So lightly, too—for today's corselette is a world apart from old-fashioned all-in-ones. Stripped of heavy bones and stylish-stout trimmings—it's emerged in the sheerest elastics and laces, styles as supple as a swim suit, as easy to tub as your nylons.

In all this, Warner's has led the way, created corselettes to single you out as a beauty whether you start as a Junior or slightly Junoesque. And prices? Why, they start at as little as \$7.50 at your nicest stores, both here and in Canada.

WARNER'S*

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BRAS - GIRDLES - CORSELETTES

A GREAT BEAUTY—(right) Warner's "Merry Widow," a fabulous strapless half-bra, waist-cinch, all-over amoother—with detachable garters. #1311 in black or white nylon and sheer elastics, \$12.50. Also in comfy white cotton, #1315 at \$10. (center) the long 'n lovely descendant of Warner's "Merry Widow"—in exquisite white nylon lace and elastics—or in black lace with white orlon tracery. #3322 at \$37.50.

CHANNELING YOUR CURVES into one—(far-right) Warner's all-elastic corselette looks, feels—and even goes on as easily as a swim suit. #3864 in black, white, pink. \$16.50.







A PERCEPTIVE REPORTER IN A



MOSCOW THIS WINTER, as every winter, fights a perpetual battle with snow. Here snow powders many-colored turrets of Church of St. Basil and makes slush.

on the streets for the street sweepers, always women who push it along with brooms made of branches. There are not enough cars for show to cause traffic jam.

CHANGING RUSSIA

Moscow's mood is gayer and freer for a few but it is bleaker for the many, and this is what underlies the Soviets' latest change of direction by EMMET JOHN HUGHES

Of the reports published in recent months by visitors to post-Stalin Russia, this one is unique for several reasons. It is the first written by a veteran journalist and specialist in foreign affairs who was permitted to study the country and come out to write his report without censorship while the concentrated impressions of nearly two weeks were still fresh in his mind. Thus he escaped the restrictions that hamper Western correspondents attaioned in Moscow. Hughes's experience includes more than a decade of traveling and working in Europe, including tours of duty as chief of the TIME-LIFE bureaus in Rome and Berlin. Formerly Articles Editor of LIFE, he is now a LIFE staff writer based in Europe. Part 1 of his two-part report follows.

WAS the only passenger on the twin-engined, 27-passenger Soviet IL-12 as it nosed toward the runway of Budapest airport in the blurred light of early morning. Just an hour earlier, in a shell-scarred shack at the Soviet airbase of Bad Vöslau, 30 kilometers south of Vienna, the four-man Soviet crew had reluctantly pushed aside their chessboards, surrendered the comfort of the tiny coal stove and single light bulb adorning the waiting room, and we had begun our flight east. Now Budapest: first stop en route to Moscow.

The mind of any American on such a journey is crowded with an excited host of obvious questions. What would be the manners and ways of this city's people, their food, their fun, their daily labor and wage? And beyond these things the darker questions: what was the pattern of the obscure "collective rule" that had, since the death of Stalin, set itself to the towering task of governing 210 million peasants, workers and bureaucrats? What was the substance of the new Soviet economic program, trumpeting so loudly in the last months its gaudy promises of abundance to the citizens? And what might all this mean to a world whose peace and freedom have so long been tormented by the masters of this city and this nation?

Our plane skidded to a stop in the icy runway and three Hungarian police officers instantly came aboard. I had had no thought of leaving the plane to test the assurance of the Soviet consul in Vienna that no Hungarian transit visa was necessary for my flight. The police clearly had a different thought. I was quickly led to a deserted waiting room in the massive, fortresslike airport building. I was told to wait. Police, and my passport, disappeared.

Fifteen minutes passed. I saw that the refueling of the plane was finished. The perfect silence in the waiting room continued. After another quarter hour I saw the crew return to the plane. I was no longer alone. Outside the rear exit to the room a young soldier, Tommy gun across his chest, had taken up his station. A glance in the opposite direction showed a companion sentry pacing easily back and forth in front of the exit to the field. Another 15 minutes of unbroken stillness. I strained to catch the first sounds of the plane engines warming up (a process to which Soviet pilots devote from 5 to 10 seconds before take-off). Thus an hour ended.

Fifteen minutes more of silence and then a senior police officer appeared, icily returned my passport and carefully escorted me to the plane.

Seven hours later, after a midafternoon stop at Kiev in the Ukraine, we landed in the freezing dark of Moscow's Vnukovo Airfield. It took half an hour to drive to Moscow's center. Peering through frosted windows at the low, dark shacks hugging the road, the brightly lighted outline of the tower of Moscow University capping the Lenin Hills, and finally the massive walls and gates of the Kremlin topped by brilliant red stars glaring over the low-lying city, I began to look for answers to some of the questions that had brought me here.



SYMBOLIC ORANGE SHADE-FOR ITS PLACE IN RUSSIAN SCENE SEE PAGE 117

FIRST IMPRESSIONS: NO INSPECTION, LITTLE PROPAGANDA, NO HOSTILITY

THIS cold, solemn-faced "third Rome," seen from a tourist's-eye view, has a few surprises in store. Some were welcome surprises. They included trifling comforts: larger and better taxis, more well-heated hotel rooms than you find in the capitals of Western Europe. More important: I was never searched, my baggage was not even opened, either upon entering or leaving the country. The only question asked me was: "Have you any literature?"—a simple, eloquent suggestion of the weapon most feared.

My belongings remained undisturbed in my hotel room. I was never followed by police. For hours on end, in department stores and markets, I openly took detailed notes of merchandise and prices.

Another surprise was the scarcity of the blatant and gaudy paraphernalia of totalitarian propaganda. One can walk for miles through Moscow streets without seeing a political slogan or a picture of the stern face of some political leader. While a photograph of Lenin or Stahn is to be seen in every hotel and a bronze statue in the lobby of almost any theater, a place like the Leningrad station displays not a single political slogan. And two such signs hailing the "glorious party," which until recently topped two buildings above Sverdlov Square, have been removed.

Social contact, too, had a few surprises. Tales of the frenzied curiosity inspired by sight of a Westerner are myth. No encounter anywhere provoked either the slightest show of interest or hostility toward an American. This, I was told, has for years been the unvarying experience of Americans stationed in Moscow.

The list of comforting surprises on the surface of Moscow is quickly exhausted. The rest of the scene is painted in different colors.

Standing on the rise of one of the Lenin Hills in southeast Moscow, not far from the university, one sees the sweep of the city in the bowl below. Through the gray shadow veiling the city all the long winter, some towers of Moscow's seven skyscrapers can be dimly seen, here and there the puffing breath of a factory stack, the slow swing of a crane. The rest is still, low, sprawling to the end of sight—thousands upon thousands of gray-black houses that hug the earth for warmth. No light pierces the half-twilight at noon. No flash or dot of color relieves the sullen expanse. Hidden from sight are the bundled crowds shuffling through the main streets, the buses and trucks and cars that provide a kind of New York-on-Sunday traffic over the main streets. An American may think: this—on a smaller scale—must have been the look of a frontier settlement in our northwest, frozen into winter silence.

And at that instant the tourist guide will probably break into the thought (as she did with me) to observe with grand assurance—pointing to the gray slums directly below; "Here a beautiful stadium

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REPORTER IN RUSSIA CONTINUED

for 200,000 people is going to be built. When? I do not know. The date is not yet exactly fixed." No, she does not mean that the silent inhabitants below are to take up residence in the new amphitheater. They can warm themselves by the assurance that vast prefabrication assembly lines are to produce the equivalent of 100 apartments a day for Moscow: "This will be very soon, although the date is not yet announced."

A GRAY CITY OF SILENCE, QUEUES AND THE DRANGE LAMPSHADE

THE center of Moscow is the showplace of the Soviet Union, It is in this great command post of the state that one sees the best-fed, best-housed, best-clothed beneficiaries of a new way of life. Here the arresting physical monuments are quickly seen. Two stand above all others: the austere Red majesty of the Kremlin, and the red and gold brilliance of the Bolshoi Theater matching the dazzling artistry of its ballet, both inherited from the czars. To match these, the Soviet state has contributed a subway system of preposterous splendor, and two historic corpses, surrounded by slabs of black and red marble, to make the 20th Century world's most famous mausoleum.

The first of these Soviet monuments attracts more than two million passengers, the second, thousands of idolatrous and the curious every day. For a modest 50 kopecks (only 121/26) the subway system, now 20 years in the building, will carry its passengers to any of 39 stations which are the most fantastic underground structures conceived by modern man. At Revolution Square station one sees, under brilliant lights, a long arcade whose sides are niched with arches curving over nearly life-size bronze statues of harvesters and machinists, coal miners and lathe operators, peasant girls and factory women. At Komsomolskaya Square station huge chandeliers light a ceiling of brilliant golds, reds and blues, flashing in grant mosaics of memorable scenes from Russian history. Those are truly temples of the Soviet state. The slumbrous silence of the thousands jamming the swift blue trains might castly be construed as a sleepy kind of reverence—or else a mute disbelief in the real existence of a radiance in such savage and incongruous contrast to the sights above ground.

Impassive, too, are the thousands standing each day in the chill line stretching along the Kremlin walls on Red Square, waiting to pass through the mausoleum. They betray no fervor, murmur softly and idly to one another as they shuffle toward the severe marble tomb. Within, the structure has all the warmth and charm of a bank vault. To the right is Lenin—the image of a fussy chemistry professor. Beside him, Stalin-the deeply pock-marked cheeks, the heavy nose, the hard, tight swell of flesh below the lips combining to make a face of singular vulgarity and cruelty. Silently the thousands shuffle past in neat, fast-moving lines. their faces and gestures expressing all the reverent ecstasy of a crowd filing through the turnstiles of one of New York's drably bourgeois subway stations.

On the main shopping streets -- Gorki, Arbat, Petrovka -- as well as on the winding roads farther from the center, one finds everywhere the mark of splendid Soviet uniformity.

It is a city of silence—no screaming horns, no complaining brakes, no clatter of heels on the pavement. There is only the even murmur of light traffic, the soundless fall of thousands of boots shuffling the soft snow.

It is a city where women have been blessed with literal answers



NEWLY OPENED G U M. DEPARTMENT STORE IN MOSCOW

to all imaginable dreams of equality with men. They can be seen everywhere to have won the right to clamber over high scaffolding as carpenters and drillers and plasterers, the right to lay bricks and cement in foundations and streets. They enjoy an uncontested monopoly of the colossal operation of cleaning Moscow's sidewalks and streets-hunched figures tirelessly sweeping their rude brooms of branches or chopping rhythmically at stubborn ice with metal spades the size of postcards. And the shrill soprano voice that occasionally rises in loud complaint from an open manhole is as commonplace a mark of women's life in Moscow as the New York secretary's meal at Schrafft's.

It is-perhaps beyond all else—a city of queues. For everything from movies and skating rinks to shoes and baggage claims, the Moscow citizen stands in line. On Sunday ("the day of rest") almost all stores remain open to accommodate the millions who have had no time to wait in line (or have waited in vain) all other days of the week. Wherever a great crowd has gathered—frequently a thick line a block long, huddling together in the cold and using knees and elbows to secure any advantage—it marks a food store. And if excitement seems to run high, it means that, by racing word of mouth, the news has spread that a favored store has just received fish from Iceland, lemons from Israel, prunes from Romania, such spectacular delicacies as apples and tangerines the size of small plums.

Here is a society scraped clean of every ornament for all but the elite, a society to which grace and taste and dignity are almost perfect strangers. The dread loss is seen everywhere. An impoverished architecture has contrived a single simple design for Moscow's postwar skyscrapers. The spacious hotels, some of which ranked among the world's best at the turn of the century, have been untouched since that time and today have as much distinctive quality as railroad stations. The signs of arts and crafts have long since gone: the few "art" objects rarely seen are crudely hown wooden figures of dogs or reindeer, or literally shapeless

lumps of marble.

It is easy to think of Moscow as the city of the orange lampshade. This extraordinary object, which can be purchased for a mere 190 rubles (roughly two weeks' salary for a stenographer). consists of a hemisphere shade in orange rayon, gently scalloped and ending in an orange frill. The total effect suggests the idle handicraft of one's eccentric grandmother killing time somewhere in the late 19th Century. This lampshade (and often this one only) is to be found in every central Moscow shop. It is universally admired and coveted.

A yearning for a little color

I like spirit and quality is the fashion show daily held at the All-Union House of Models on Kuznetsky Most. As none of the dresses shown are actually for sale, the function of this display of some 75 dresses and coats is explained simply to be "to inspire good taste." Here, to an audience of some 30 women huddled in shawls and boots, I heard the hostess explain, in the tones of a grade-school teacher: "This is an evening dress. . . . If you are stout, this would be a good style. . . . You could wear this to the theater. . . . You should not wear this anywhere but in the home. . . . "

Such scenes as this may tempt Westerners to mockery. But the pathetically earnest striving for a little fashion and color is a sad and eloquent commentary upon the hunger for some simple grace to relieve the darkness of a whole generation.

One quickly becomes accustomed to the fact that male patrons

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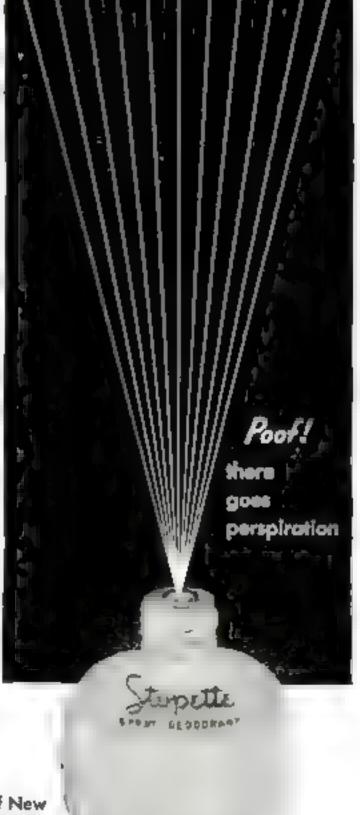
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QUEUES ARE SEEN EVERYWHERE, ESPECIALLY AT FOOD STORES (ABOVE

REPORTER IN RUSSIA CONTINUED

of the most expensive hotels and restaurants wear sweaters, disdain ties and evidently shave about twice a week. One evening, in one of Moscow's most luxurious restaurants, the Ararat, I watched a Moscow citizen at the next table finish his chicken by throwing the bones over his shoulder, then grasp a generous steak in his right hand and alternate its dismemberment with full slices of bread uninterruptedly supplied to his mouth by his left.

THE BLEAK LIFE OF THE WORKER: HIS WAGES, DIET AND HOUSING

WOMSOMOLSKAYA PRAVDA" greeted the new year of 1954 with an ecstatic cheer for "our Socialist fatherland . . . a bright lighthouse that lights the path forward for the whole of mankind." The pursuit of truth in this "bright lighthouse" has historically resembled groping in the dark for a light switch—with success followed by the discovery that someone has removed all bulbs in the house.

There is one solace in this fact: the elaborately contrived official barriers against the curious are, in themselves, revealing. Ringing the American colony in Moscow, for example, are all the familiar restrictions of choice and movement. While great areas of the Soviet Union were opened to foreigners by decree last June, there are still only three highways by which one may leave Moscow itself. In many of the so-called "open" areas, key air centers and railroad centers in these areas remain blacked out, so that while a map suggests vast expanses of "free" territory, there is only one impractical way to test their freedom; on foot. No Americans can get automobile licenses, so that Russian drivers are their constant companions. Virtually all Westerners must make their residences in their embassy properties or in one of the three apartment buildings specially designated for foreigners.

More frustrating still is the patriotically clamped Soviet jaw that generally meets the most matter-of-fact questions. I visited the ZIS factory that sprawls over a vast area in southeastern Moscow. The second biggest factory of its kind in the Soviet Union, it is officially scheduled to produce 100,000 trucks, buses and automobiles yearly. Choosing for inquiry the most innocuous product—the big ZIS that resembles the American Packard of prewar years—I had the following informative exchange with the plant's assistant director:

"How many ZIS automobiles do you turn out each year?"

"We have no fixed schedule."

"What would an approximate total be?"

"We only make them on special order from the government."
"About how many such orders come through in a given year?"

"Rather a few."

"Well, on special order or by schedule or any other way, could you say how many ZISes were actually made this year?"

"As I have said, not very many."

I sighed, he smiled a cheerless smile, and we changed the

subject.

Even volubility, when it is found, contrives to be scrupulously uninformative or unconsciously nonsensical, thanks to the wondrous semantics of Soviet Communism and the deliberate maze of Soviet statistics, an elaborate "shell game" played with numbers, prices, wages and production figures. To cite one case: the



AND OUTSIDE THE MAUSOLEUM WHERE LENIN AND STALIN LIF IN STATE

dramatic "price cuts" announced last March 31 on all food sold in state stores included a 15% reduction in the price of meat, a 50% reduction on all fruits and vegetables. How could it be possible? There were two simple explanations that slowly became apparent. First: all meats were at the same time regraded into 12 categories—and, needless to say, the more edible grades were not notably cheaper than before Second: the vegetables and fruits which benign official decree had reduced to half price simply disappeared for months from all state stores—to be purchased only on the collective or "free" markets at the going price of the day, i.e., from two to six times the old official prices.

Infinite and ingenious as the devices of totalitarian deceit are, they do not, in the last analysis, prevail. For all the murk of rhetoric and eulogy and rationalization clouding every fact, word and figure, the millions of Soviet Russia and the watching world have come to see, since the death of Stalin, the slow but clear unfolding of a new act in the fantastic melodrama of

20th Century Russia.

Last August, Georgi Malenkov, Chairman of the Council of Ministers, admitted publicly that the health of the nation was not what it should be. To the Supreme Soviet of the U.S.S.R. he declared, "It is an urgent task substantially to enlarge the supply of all items of popular consumption to the public." These flat words were energized less than a month later by Nikita Khrushchev, First Secretary of the Communist party in a 25,000-word exhortation to the party's Central Committee. His meticulous analysis of the nation's 94,000 collective farms bristled with adjectives rarely heard from Soviet officials except when speaking of imminent capitalist catastrophes: "Alarming . . . wretched . . . negligent . . . completely inadmissible."

What had gone so awry in the Soviet economy to summon such vehemence? And what did it mean when brought home in concrete terms to the worker-consumer? The answer to the second question can be read in the diet, housing and earnings of the average citizen

of Moscow today.

Not starving, not well fed

HIAT does he eat? His daily fare has slowly improved from the dread depths of the immediate postwar months to reach this tuple diet: soup, cheap sausage and cured fish, cabbage and potatoes, bread and macaroni. None but the best paid taste good meat, fruit, butter, cheese, tea, coffee or milk in the winter months of soaring prices. The worker is not starving. He is not well fed.

Where does he live? If he belongs to the majority of better skilled industrial workers, he began his career by spending his teens in the hostels and schools run by the Ministry of Labor Reserves. For those years, his dormitory life was precisely prescribed by government decree. He was given a bed, coat hangers, a stool, a bedside table to share with his neighbor; with nine others, he shared a wardrobe, shoebrushes and a drinking bowl; with 19 others, an iron; with 24 others, a bucket for washing clothes; with 49 others, a tub. Next, as a young worker, he spent years in similar dormitories run by local factories and Soviets. In Moscow these ar commodations cost approximately 10% of the worker's salary.

If married and fortunate, the worker has today escaped dormitory life to join those citizens who (by decree) are theoretically entitled to not less than six square yards per person. The Moscow average is one room per family, with kitchen, bath and lavatory

CONTINUED ON NEXT PAGE



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REPORTER IN RUSSIA CONTINUED

communally shared and disputes over their use arbitrated by "comradely courts." Maintenance is so pressing a daily task (new buildings begin disintegrating within two years) that tenants band together to meet the everyday problems: cracked ceilings, damp walls, warped doors, leaking roofs, broken plumbing.

What are the wages of the 48-hour-a-week workers of Moscow? The rough accepted "average" (and this is in one of the best-paid cities of the Soviet Union) is about 650 rubles monthly.

There is a reason for the most patient Western statisticians in Moscow accepting such a rough average: the labyrinthine complexity of the Soviet wage system. Some three fourths of all industrial workers are paid on piecework rates which allow for both "progressive" wages (above fulfillment of decreed "norms") and bonuses for raising quality or lowering cost. There are other variables conferring additional payment, but all contingent benefits are blurred, often erased, by various exactions ranging from the income tax (up to 13%) to the so-called "voluntary" annual state loans, which command "enthusiastic" donations of as much as four weeks' salary.

Conversion of either prices or wages into dollars at the official rate of four rubles to the dollar is grossly misleading, for the ruble's real value bears no resemblance to 25¢. Only for easy comparison of wages with prices can this rude yardstick be used. Some representative monthly wages being paid these days in Moscow are:

	RUBLES	DOLLARS
Chief construction engineer	2,000	500
Typesetter of Pravda plant	1,400	350
First pilot, civil airline	1,400	350
ZIS assembly-line workers	1,100	275
Truck driver	700	175
Secondary school teacher	700	175
Stonemason, carpenter, electrician	500	125
Stenographer	400-500	100-125
Street cleaners and charwomen	250-300	62- 75

What do such wages buy in Moscow?

A cheap blue leather purse (100 rubles or \$25) costs a stenographer close to one week's wages.

A pair of simple leather pumps (312 rubles or \$78) costs a

schoolteacher almost two weeks' wages.

A coffee pot (92 rubles or \$23) costs a charwoman nine days' wages. A truck driver can buy a rayon shirt (120 rubles or \$30) for a little more than four days' wages, a silk shirt (215 rubles or \$54) for more than one week's wages.

For a cheap serge suit (1,500 rubles or \$375) a man on the ZIS

assembly line will work close to a month and a half.

The rest of the bleak story of the life of the urban consumer is told in the thronged state stores and in the open sheds of Moscow's "free" markets, where the workers of Moscow buy their food.

Bread is cheap, but butter . . .

THE state store is a socialistically pure institution; its prices, reduced no less than six times since World War II, are set by government decree. Prices on a few basic food items are low, notably bread (the commonest grades averaging about 1.70 rubles a kilo —or 20¢ a pound) and potatoes (at 45 kopecks a kilo—or 5¢ a pound). But here their blessings end. Costs of remaining items speak sadly for themselves: a pound of average-grade butter costs \$2.95, a pound of average-grade cheese costs \$4.10; and almost unthinkably expensive are such luxuries as eggs (25¢ each), oranges (62¢ each) and lemons (75¢ each).

The rest of the story of the state stores is told by the mobs that jam every state store, fighting their way to the precious counters. All but the most meager list of items (bread, pork, cheese and sausage) disappear frequently from counters not for days but for

weeks and months.

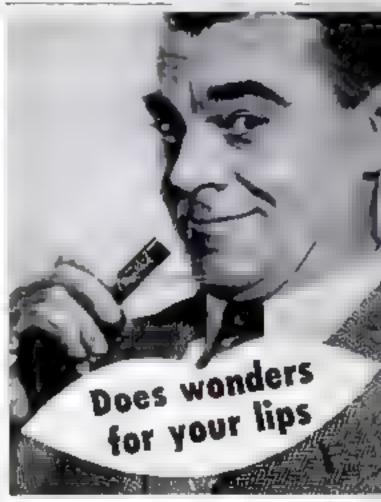
Thus the dependence of Moscow upon the runok or the collective-farm market, indicated by the fact that the city now has 31 such markets and more are in the making. To the open brown sheds of the rynki supplies come through two channels: from the collective farms renting annual space and from the individual peasant who trudges to the city and pays two to three rubles to the market for the chance to hawk his own produce or his earnings-in-kind.

Prices which the market commands are decisive commentary on the fictional prices for nonexistent goods in the state stores. Going through the Tikhvinski Rinok I noted the following: potatoes, 2.50 rubles a kilo (vs. official price of 45 kopecks); lamb, 30 rubles a kilo (vs. official price of 12 rubles); apples, tiny and worm-eaten, pelight _____ your dog_ with (Brispy, (Brunchy New treat even pupples can chew

cats! Made without sugar, Veteri-

A taste that "wows" dogs and naman-approved ingredients build energy-special shape aids chewing. Feed KLIX freely!





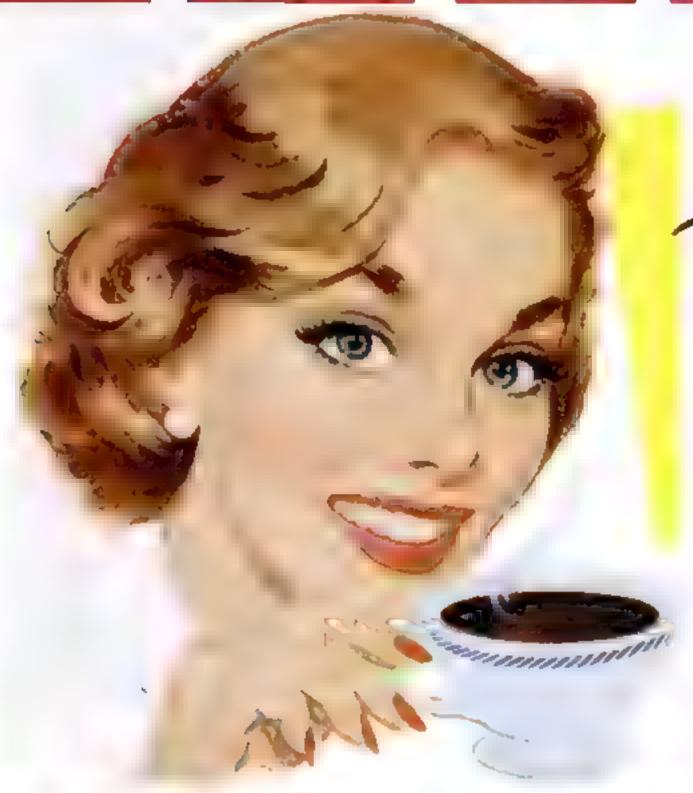
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You'll find Borg-Warner serving important companies in almost every field. In aircraft production, for example, there's Douglas Borg-Warner is especially proud of its long association with this famous designer and builder of planes... and of B-W's contribution to Douglas' newest plane—the luxurious DC-7.

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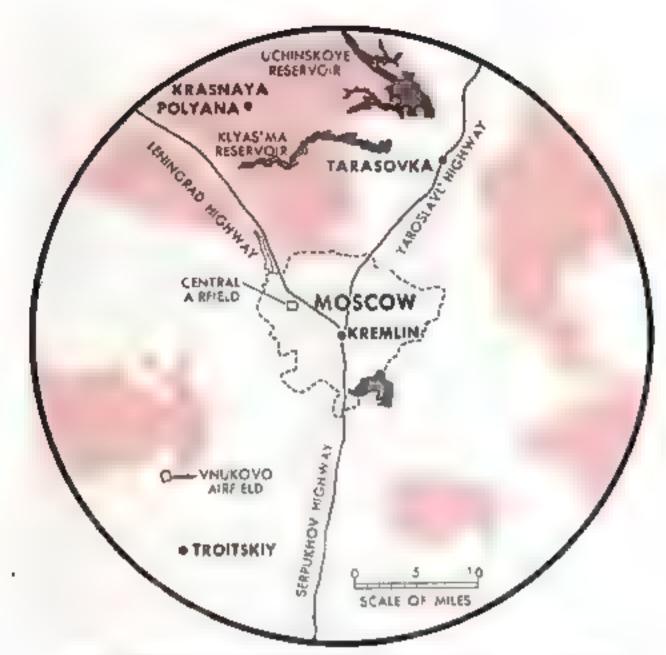


New Douglas twin-jet bomber, the Air Force B-66B, flies at 600 to 700 mph... at tree-top level or eight miles up. Precision fuel pumps made by Borg-Warner help the B-66B achieve exceptional performance. In guided missiles, too, B-W equipment carries out many vital operations, from feeding fuel to doing the steering.

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NO TRESPASSING for foreigners is rule in area around Moscow shaded in red. Highways shown are the only three open. North of Tarasovka is where Hughes saw how the peasants live.

REPORTER IN RUSSIA CONTINUED

24 rubles a kilo (vs. state price of 6.70); milk, 6 rubles a liter (vs. state price of 2.90). One further fact that cannot be conveyed by these statistics is the "quality" of the produce, sensationally inferior to the plainest standards of Western Europe.

A barren, cheerless existence it is. What makes it bearable at all? A few mitigating facts put it in true perspective: 1) the absence of any apparent famine; 2) low rents that consume a far smaller portion of workers' wages than in the West; 3) the negligible cost of children's education; 4) some tangible social benefits such as free medical treatment, state-paid vacations for a favored some; and 5) the earning power of wives freed of the care of children by Soviet-run or factory-run nurseries and kindergartens. All these are relevant, if far from redeeming, factors.

The view of the same economic scene from the lofty heights of

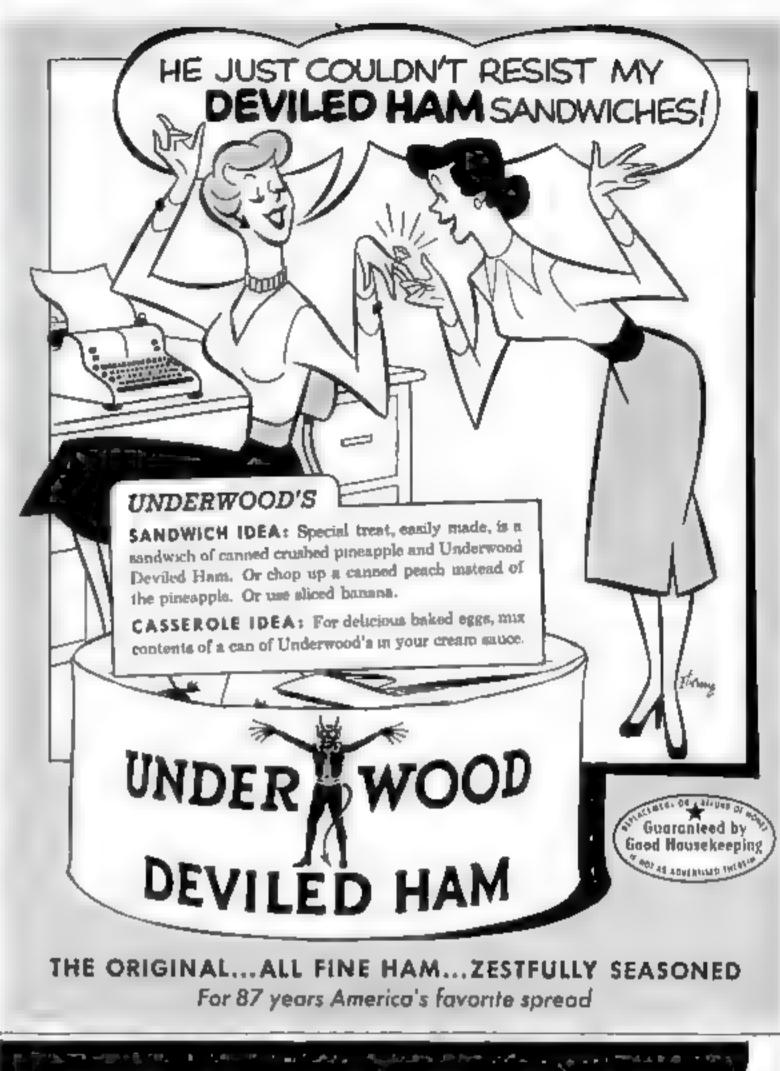
Kremlin policy raises other sights and problems.

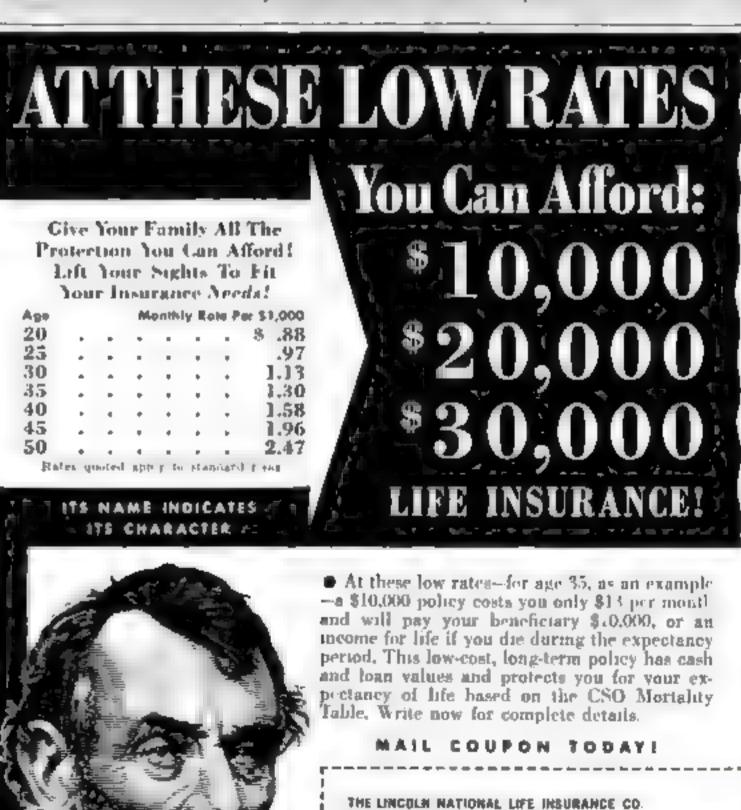
First: All economic policy suffers from chronic schizophrenia. There is bizarre farce in this economic puppet show in which the state must jump frantically back and forth from the role of producer to the role of consumer. Such cruelly capitalistic anachronisms as the "free" markets defeat all the grand promises to the consumer: The state (as the consumer) longs for their annihilation. But the state (as producer) dare not bankrupt the collective farms and drive the peasants into a mutiny more menacing than their perennial sullenness. So the state (as producer) must widen the "free" market opportunities to encourage the peasants to work for more than their own daily bread.

Second: The machinery of government is caught in another kind of economic cross fire. The government's greatest sources of revenue are the turnover taxes on all consumer goods and the huge "spread" between what it pays for farm produce and what it charges the consumer. Thus, the beef the state buys for 1.50 rubles a kilo, it sells for 12.50. And the haunting problem emerges: to what extent can the government reduce consumer prices on one side, encourage peasants with higher farm prices on the other side, and still capture enough billion rubles in the middle to feed its

colossal self?

Third: The Soviet economy continues to be plagued by a chronic imbalance of payments over receipts. The amount paid out for wages and services is considerably greater than the value of available consumer goods to sop up such buying power. This threat of wild inflation has forced the state to have recourse to such savage economic devices as the slashing revaluation of the ruble in 1947 (in general, returning one ruble for 10), and the yearly "voluntary" state loans, Hence one compulsion behind the official cry for consumer production is the hope to steady this perdous financial balance. It was fear of uncheckable inflation that must have dictated the government decree of September 1946 which overnight raised all rationed food prices a colossal 180%. This near-tripling





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REPORTER IN RUSSIA CONTINUED

of food costs was compelled by the pressure of wartime savings finding no outlet in consumer goods.

THE RICH LIFE OF THE RULING CLASS: FINE RESTAURANTS AND LOW TAXES

ORE than 20 years ago, in a memorable interview with Emil Ludwig, Stalin pontificated: "Egalitarianism has for its source the peasant way of thinking, the mentality of sharing everything equally. . . . Egalitarianism has nothing in common with Marxist socialism." This is one Stalinist precept which subsequent events have treated kindly. Inequality is steadily deepening in the workers' state.

The peculiar marks of this socialist inequality are inconspicuous wealth and inconspicuous consumption. Not wealth but un-Bolshevik ostentation is to be condemned. Yet even the surface signs are far from invisible. It is no accident that the only smartly dressed Moscow citizens are in uniform: the fashion extends beyond the military to the foreign office and other civilian ministries, with the clearly conceived purpose (according to a recent Soviet textbook) of "increasing the prestige of those officials." One can stand at almost any corner of Moscow and see new apartment buildings, sporting a score of television aerials, loom placidly above hovels without light or windows (the kind of grim, gray little houses that the official guides drolly refer to as "old-fashioned").

The lush restaurants—the Ararat or the Georgian Aragvi or the mammoth dining room of the Sovietskaya Hotel—are nightly filled to capacity and on holidays overflow into waiting lines. Here one sees no Spartan fare; the tables for the bureaucrats and their wives shine with color and plenty—caviar and cured sturgeon's back, fresh-frozen foods, tangerines and bananas, Mexican pineapple, tender filet mignon, an array of Georgian wines. The lavish dinner of the Sovietskaya may cost some 40 rubles, but this maximum indulgence costs the well-paid bureaucrat less than one fifth of what a pair of shoes will cost the Moscow worker.

The highest possible income tax payable by a Soviet official or industrial executive comes to a mere 13% of his income above 1,000 rubles—a dispensation to wealth enjoyed in no capitalist

nation of the West.

But the fiercest dividing line of all can be simply indicated by the sight of two schools which I visited. The first was in Moscow, just off Gorki Street in one of Moscow's more comfortable sections: School No. 175 for 1,098 enrolled girls under 52 teachers, grades 1 through 10, clean classrooms, balanced curriculum, healthy and alert pupils—in short, a solid expression of Soviet Communism's

herce faith in public education.

The other school—to which no official guide carefully led me—I was able to visit only on a holiday, but its exterior spoke plainly enough. It stood on a little bill in one of the villages beyond Tarasovka, some 22 miles north of Moscow. A sprawling L-shaped shack, it served three neighboring villages both as school and party meeting house. In the subzero cold, many of its windows lacked glass. Its rotted roof invited rain. Its most conspicuous piece of equipment: close to the road, a rudely nailed-together privy, the two doors for boys and for girls swinging loosely on their hinges in the icy wind.

It is to this barren countryside, to the thousands of collective and state farms, to the impoverished, stubbornly defiant peasant—whose "transformation" Lenin predicted would be something that required generations—that the impassioned energies of the Kremlin are now urgently turned. The motive is not to be confused, of course, with pity or benevolence. It is simply to make one more frantic effort to enlist the industry, if not the loyalty, of the one man who might redeem the withering dreams of the urban masses, the one man who could steady the dangerous balance of the whole Soviet economy—the mulish, untrusting peasant.

THE PEASANTS' HALF-ALIVE EXISTENCE AND KHRUSHCHEV'S NEW FARM POLICY

BEYOND Tarasovka, due north of Moscow, I wandered several miles through the clustered villages for such glimpses as one

can see of country life under the icy clouds of winter.

The earth seems held in an unbroken spell of silence. Fifty-odd shacks, black-gray or weary green, huddle together to make each village. A rutted road winds emptily through the pines and birches lightly feathered with snow. A lone man on skis moves across a distant slope. An hour passes without a sound of life, then two peasant women hunched under shawls scurry from one shack to another. The next hour brings an empty truck threading

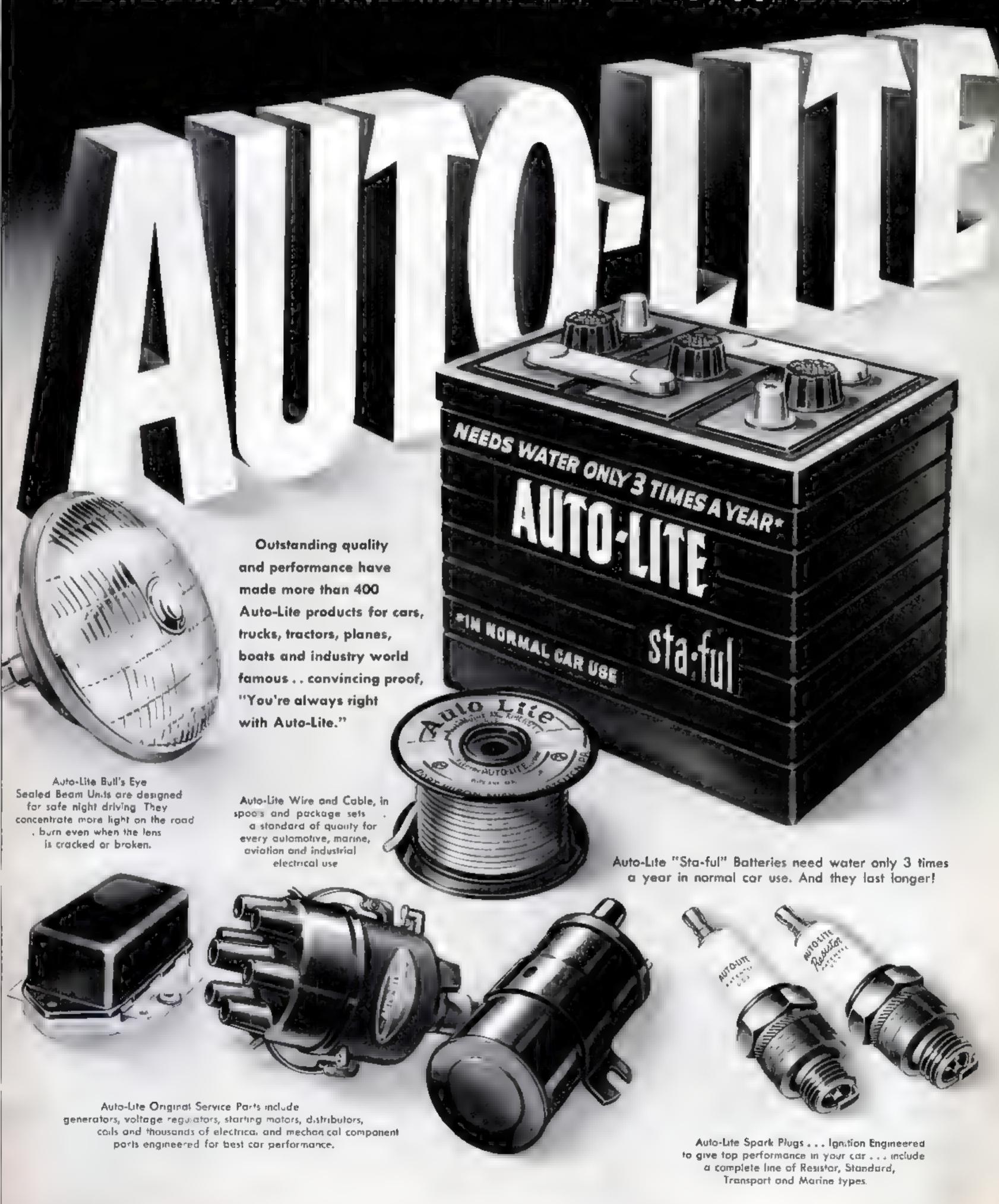
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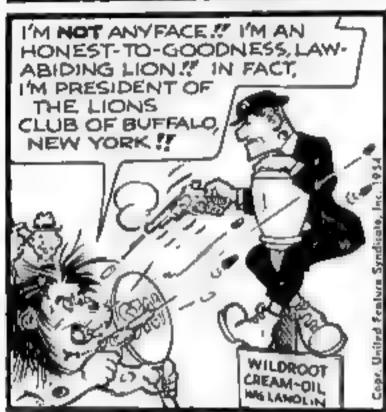
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REPORTER IN RUSSIA CONTINUED

a road across the snow that seems to roll softly like the sea on the horizon. A far-distant train whistle carries over the low hills. From lightless houses windows without glass stare like sightless eyes upon the frozen plant stalks, the rusting plow.

These villages are helpless man-heaps of the half-alive.

To these people the Soviet state has turned with the greatest gift in its power to give: another reversal of agrarian policy.

Over the decades, Moscow policy toward the peasants has zigzagged from the extremes of the Stalinist terror of the early 1930s to the lax wartime truce accepted by a government too needful of food to fret over doctrine. But in 1950 a fierce new collectivization drive began. In two years the quixotic agrarian axiom of "the-bigger-the-better" had hammered 252,000 collective farms into 94,000 supercollectives. An accompanying drive (led by the same Nikita Khrushchev whose agrarian ways have so lately changed) aspired to the fantasy of merging whole villages into agrogorods ("farm cities") where political control could be tighter and surer.

Through all the years of swerving farm policy, the ruling Stalinist purpose never changed: a pitiless drive for development of heavy industry. This demanded the "financing" of superindustrialization by maximum state exploitation of its prized source

of revenue—the price "spread" between peasant and consumer on all farm produce. In this sense have the factories of the Urals been built upon the backs of the peasants. And the total result has been the warping of a whole economy whose industrial production since 1940 has swelled by 230%—while its agricultural production, falling behind even population growth, has crept forward a meager 10%.

The 25,000-word obituary which Khrushchev last September delivered upon his own furious collectivization drive revealed, with rare Soviet candor, the brute details be-



FARMING BOSS Khrushchev

doubles as the party secretary.

Did Party Secretary Khrushchev think he knew what to do? He professed so. He pledged the government to spending a special fund of 50 billion rubles by the end of this year in "urgent measures" to prod the farms to produce. He called for 100,000 agricultural office workers to head for the collectives. He called on the party to dispatch no less than 50,000 Communists from the cities "to help strengthen the work in the countryside." He directed the Central Committee to call on a host of government ministries—from transport and machine building to defense and aviation—to get to work producing 750,000 tractors.

Above all, Khrushchev promised the peasant a singularly unsocialistic reward: private profit. Canceling past obligations of collectivized peasants, cutting their taxes, lowering some of their quotas, raising some prices for their produce, the party secretary translated into specifics the formula defined by Malenkov himself last August: "A greater material incentive to increase production." In this same spirit he blandly dismissed the idea that "it is dishonorable to possess livestock as private property" as a shallow "prejudice." Not for the first time, nor yet surely for the last, the doggedness of the peasant was scoring another victory over the doctrine of Lenin.

Four months have now passed since the agricultural "new deal" was trumpeted to the Soviet nation by Khrushchev. What has been achieved? The answer to date is: next to nothing. This does not mean that the year 1954 may not record some progress: no one can issue categorical prophecy on a program of such sweep and subject to such imponderables as peasant mood and rainfall. But the program today may be said to be moving only in the sense that it is crawling in low gear.

The clearest proof of this is to be read in the Soviet press itself.

There has been no mistaking the tone of anxiety in its public laments, increasing week by week toward absillance.

One chronic trouble is the swollen bureaucracy that so often shrinks the grandest Soviet economic projects to piddling schemes. Ministries charged with agricultural machine building are producing at a rate which *Pravda* describes as "impossible to tolerate longer." For the last year they have failed to deliver more than 90 million rubles worth of essential spare parts, and *Pravda* has wailed that even "ordinary nuts and bolts have fallen into short supply."

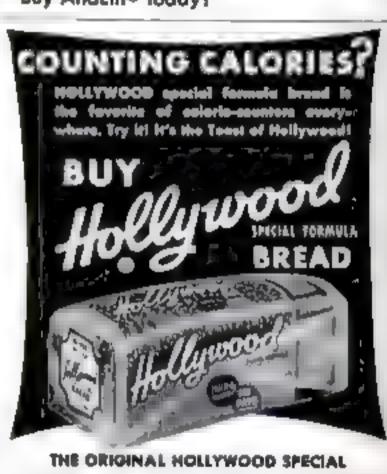
Some bureaucratic delinquencies can be corrected, but a greater

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CONTINUED ON PAGE 121

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MEAT BALLS with GRAVY



REPORTER IN RUSSIA CONTINUED

amount is bred deep in the nature of the system. As one free world diplomat said to me, "A Western mind staggers before the size of the task that this government arrogates to itself. It reaches from the most complex industrial programs fashioned in Moscow down to the supply of the needle and thread that a Vladivostok housewife needs to patch her husband's trousers. Or put Marilyn Monroe in this world—and her scripts, her wardrobe, her public relations, her direction and casting become the official business of God knows how many official agencies of the Soviet government itself." To see all this, one need only read one government decree running thousands of words, earmarking funds to the last ruble for every conceivable phase of agriculture. In short: sleek, totalitarian streamlining of government operations of such exquisite detail and frequent absurdity could itself take as long as the "transformation" of the Russian peasant who so dismayed Lenin.

Evidence from the farms to date is no more encouraging than news from government offices. As 1953 came to an end, the whole Soviet press ground with reports of the failure of regions throughout the country to meet produce quotas. State farms generally were reported falling 33% behind planned deliveries of meat and milk. In Georgia, Abkhazia oblast (region) was meeting its milk plan by only 25%, its program of construction of livestock buildings by a pitiful 6%. Winter fodder on state farms was as much as 40% below requirements. All this suggested that the "majestic new program" had not quite set the nation's farms on fire with enthusiasm.

The final, clearest mark of the near-stall in the program has been the failure to solve the riddle: how to get the boys back on the farm? Repeated reports from almost all the republics show an almost unique instance of unity of spirit between the city-dwellers and the peasants. The thousands of swivel-chair agronomists do not want to go to the bleak collective farms—and the farmers do not want them either. There was to be a dazzling army of 100,000 by early this year—but, as last year ended, *Pravda* reported that Leningrad, for example, had unearthed a meager one fifth of the specialists it was supposed to send back to the soil.

No one can doubt the ultimate punishing ability at the government's command to "appeal" to reluctant agronomists and former tractor-operators to leave office and factory for the mire and poverty of the deep country. But a bloated bureaucracy has its own devious resources too. The new, imperfectly balanced "collective rule" of the Kremlin cannot count upon perfect docility from a class of government careerists ever more conscious of its own power. So the Kremlin is as much preoccupied with its "new look" in politics as its "new deal" in economics. For the two are inseparable.

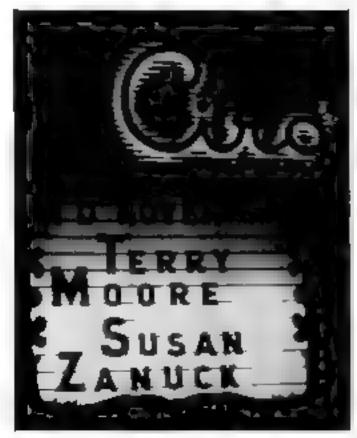


THE RUSSIAN PEASANT, like these in a collective farm meeting near Kharkov, has stubbornly thwarted the Marxist dream for three decades. He is currently being treated to a "new look" in agriculture. So far he is dubious.

NEXT WEEK: A 'NEW LOOK' OR A 'NEW DEAL'?

How this "new look" and this "new deal" in Russia are being masterminded will be described in LIFE Staff Writer Hughes's final instalment next week. He will report the revealing facts that he discovered in Russia on what goes on inside the monolithic nerve center that is the Kremlin. There, as he will describe, a new system of "collective rule" has made the major decisions that illumine the scenes in Russia to-day—and that mean war or peace for the world tomorrow.







GUESTS OF HONOR, Susan Zanuck (with microphone) and Terry Moore, have names in lights outside club. Inside they sang to entertain the other guests.

Hollywood Party in the Grand Manner

IT IS SUMPTUOUS AND SURPRISING

One rainy night about 400 members of Hollywood's party-going set turned up at a party and, for a few magical hours, thought they had been taken back into the rich and easeful days before television. The occasion was a homecoming celebration for Susan Zanuck, youngest daughter of 20th Century-Fox Production Boss Darryl Zanuck, and Starlet Terry Moore. The place was Ciro's, a nightclub on Sunset Boulevard. Because the two girls were just back from a trip to Korea, guests came in Oriental garb, most of it more exotic than authentic. The host, Herman Hover, who owns Ciro's, sparing no pains, decked out the club with gilded Buddhas, filled the dining room with incense, arranged for a bevy of geisha girls to serve up sake and octopus tentacles.

Everybody was on hand. There were producers, directors, established stars sopping up the limelight and brigades of starlets hoping to get into it. There was a special floor show, but the guests were interested mostly in watching the other guests, who, as the evening progressed, put on a pretty good show of their own both as a group and as individuals.



AN EXTENDED WELCOME is given British Star Jean Summons (left), who arrived at the party too late for dinner, by free-lance Producer Bob Goldstein.



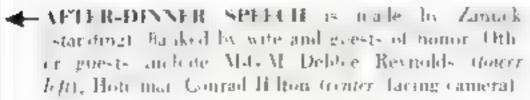




FORMAL DRESS is ween by Arleen Whelie and her except Central II flore was pot encosture at club.



COOLEST COSTEME, a sar ing and some Hawaiian has a worn by Linda Christian, Lyrone Power ande-

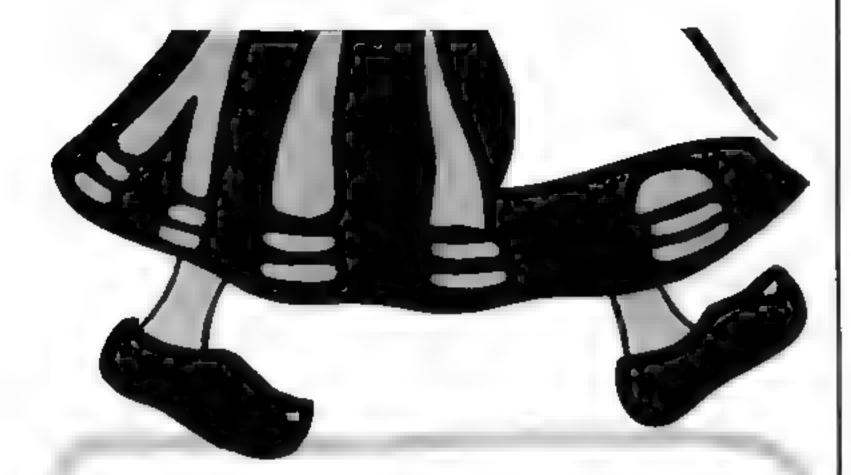




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Dencer Mizzi Gavin - who came with time? Jack Bean



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and banishes odors as it cleans?

THE NEW OLD DUTCH with "Sunshine Suds." When it turns golden, you can actually see it go to work. It kills common household germs-banishes strongest odors-and cleans quicker.



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fresh BUTTERMINT candy



- · watching TV
- · parties
- · after meals
- bridge

VERNELL 5 SEATTLE WASHINGTON



Free catalog describing LIFE's 85 mm filmstrips in color and black-and-white. These educational filmstrips are based on LIFE's pictorial essays in the fields of history, art, science and social studies.

Write LIFE Filmstrips, 9 Rockefeller Plaza, N.Y. 20, N.Y.

COUGHERS!

LUDEN'S MENTHOL GOES WHERE YOUR COLD GOES





GOES to help clear your nose

GOES to help soothe your throat

Hollywood Party CONTINUED



A TRAPEZE ACT THAT LED TO A NOTABLE IMITATION

In the course of the evening a couple of trapeze artists attached to an uninhibited musical comedy team billed as The Goofers beginted the guests by swinging back and forth over the audience upside down, tootling on trombones or plunking on a bull fiddle (above). Part of the regular nightly floor show at Ciro's. The Goofers were generally considered to have put on the most spectacular act of the evening that is until they had an even more spectacular imitator (turn the page).



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Look for this Seal on the Package!







ZANUCK ON THE TRAPEZE brought the party to an astonishing climax. Stripped to the waist, he took a few practice swings to limber up and performed four regular chin-ups. Then, urged on by Goofer Joe Vincent (left),

he tried, three times, to let himself down gradually from the trapeze bar with the strength of one arm. He didn't make it but got a big hand from the crowd anyway. "I don't understand it," he explained. "I do it every morning."

Double-Action Double-Action PALMOLIVE After-Shave Lotion



1. Cools Faster!



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ACTUALLY SOOTHES YOUR FACE FROM SHAVE TO SHAVE!

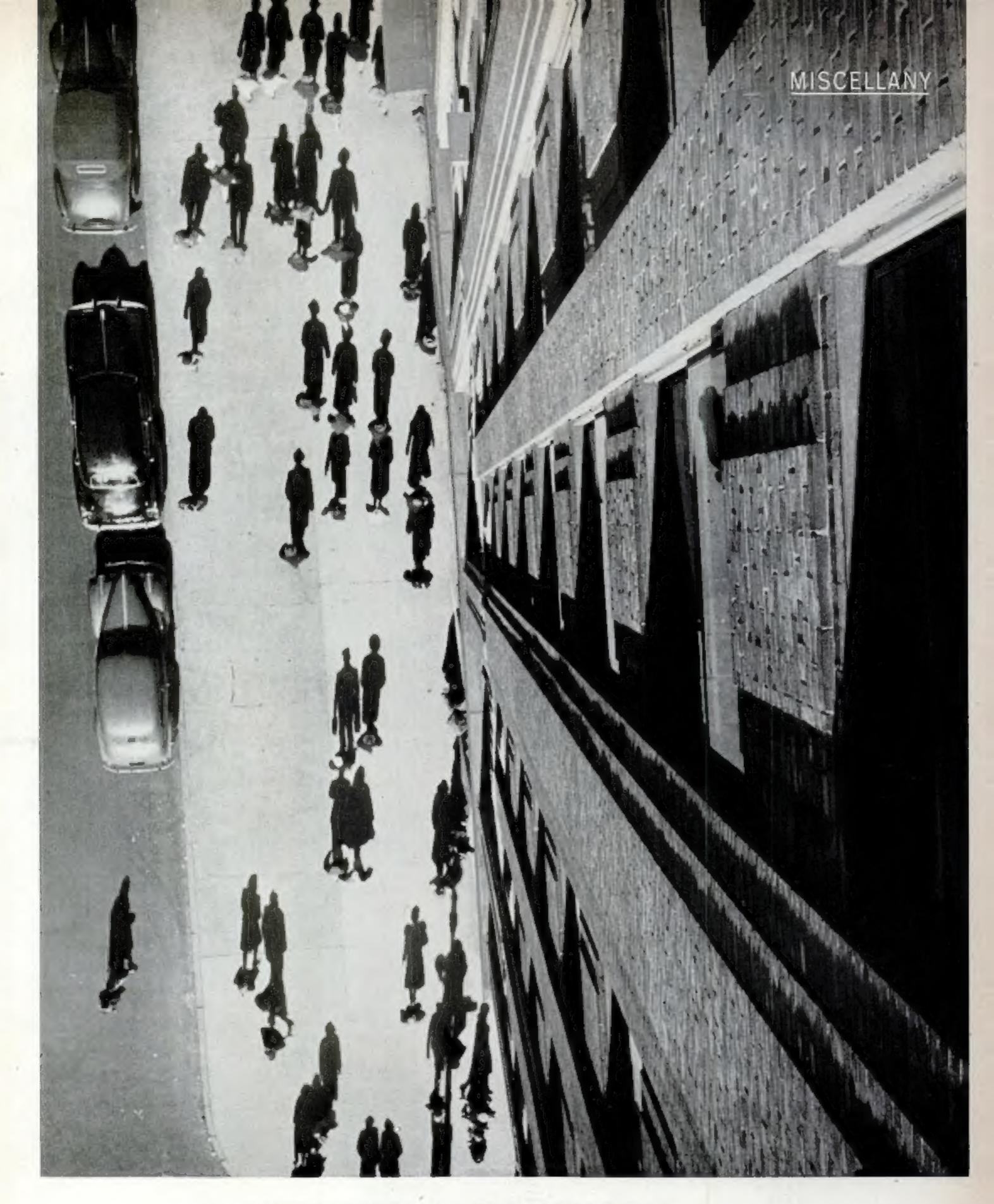
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longer; its deep soothing action actually lasts over 24 hours. And, it's a wonderful deodorant, too. Use it under arms. Splash it on your face, neck, hands?

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A HITCH IN HYPSOPHOBIA

Photographer Roy Pinney, who learned about fear chasing man-eating animals in South America and landing in Normandy on D-day, took the picture above as one of a shuddering shutter series intended to illustrate fear. It represented hypsophobia, the fear of height. To get it Pinney went up in a building at Fifth Avenue and 42nd Street, New

York City, attached his Rolleisex to a long board and, sticking it out a window over the sidewalk, tripped the shutter with a built-in self-timer. The figures that look like people walking down the street are really their shadows, slithering along in the morning sun. There has been just one hitch in this hypsophobic picture; it hasn't scared anyone yet.



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Dazzling star of the Ice Capades of '54, "Greatest Show On Ice", says:

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